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gctccgtcag ctgggtccag gcaaggtctc cgaggacgac aagctcatcg agtacgatgc 180

gctgctcgtc gaccgcttcc tcaacatcct ccaggacctc cacgggcccc gccttcgcga 240

atttgctcag gagtgtctag aggtctcggc cgactacgag ggcaaaggag acacgacgaa 300

gctgggcgag ctgggcgcca agctcacggg gctggcccc gccgacgcca tcctcgtggc 360

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<210> 13565

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E5

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<223> Clone ID: LIB3060-053-Q1-K1-D6

<400> 13566

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gaagctggac atccggcagg agtcggagcg gcacaccgac gtgatcgacg ccataccac 180

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 <212> DNA
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<223> Clone ID: LIB3060-023-Q1-K1-E7

<400> 13567

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 ctctttgtga tcatccatgc ctcttgga aaagaggaaac caaatcattg ttcagtgtg 240
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<210> 13568
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D2

<400> 13568

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 gtggcgagat tgtcatccat gtcagcgct tgcagcaaca actacaaaca caaccagggt 240
 ctcttccttt tgatgagatc ctgttctgca acattgggaa tcttcaatcc cttggtcagc 300
 aacctgtgac gttcttcagg gaggttcttg ctctttgtga tcatccatgc ctcttgga aa 360
 aagaggaaac caaatcattg ttcagtgtg atgtattttc tcgagcatag cagattcttg 420

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430

<210> 13569

<211> 424

<212> DNA

<213> Zea mays

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<400> 13569

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cccagcgtcg ccgtggaaaa cctcaacccc aaggtettga aatgtgagta tgcagtcctg 180

ggcgagattg tcattcatgc tcagcgttg cagcaacaac taaaaacaca accaggtctt 240

cttccttttg atgagatcct gttctgcaac attgggaatc ctcaatccct tggtcagcaa 300

cctgtgacgt tcttcagga ggttcttct ctttgtgatc atccatgcct cttggaaaaa 360

gaggaaacca aatcattgtt cagtgtgat gctatttctc gagctaagca gattcttgca 420

acta 424

<210> 13570

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F11

<400> 13570

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cctcgtcatg aatccaccaa aggtctgcta ttatggcatt atgccctgat tagaattagg 180

aaacgccaaa ctgtccagtt aaaaccatt gctcattct tcaggttggg gacgaatcat 240

atgcttcta caaggcagag aaagatggaa tccttcagtc tttagctcgc cgtgcaaagg 300

ttcgcttgtg tgcatttcta ctatagattt gagtaacttc ctaaacadat tcaaggtctt 360

ttttttggtc gttttacagg cactggaaga tgcattcaac acgcttgagg gattttcatg 420

taacaag 427

<210> 13571
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B3

<400> 13571

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tgaacaccat cattagaaac gagatggacg ggatcttggg cctgttctct cagtaccac 360
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<210> 13572
 <211> 424
 <212> DNA
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<223> unsure at all n locations
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<400> 13572

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gcaacaggtg catatagtca cagtcagggt atcaaaggat tgcgtgatgc aattgctgct 240
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gcaagtccct nggtccacat gatgatgcaa ttactgatta ggaatgagaa agatggcatt 360
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cttg 424
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C1

<400> 13573

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ggactgggtg ctacacttca gtctctctcg ggcaactggat cactgcgtct cgctgcagca 240
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cacaagaata tcttcaat 318

<210> 13574
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-G5

<400> 13574

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agtgaatgtt gctgtgtcag gcgcggccgg gatgatatca aatcacctgc tgttcaaact 360
cgcttctggt gaagttttcg gacaagacca accaatagca cttaaactac tc 412

<210> 13575
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-E6

<400> 13575

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 acattgggaa tctcaatcc cttggtcagc aacctgtgac gttcttcagg gaggttcttg 180
 ctctttgtga tcatccatgc ctcttgga aaagaagaac caaatcattg ttcagtgcctg 240
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 gtgacggatt ccttgcaaat gccaatgaca ttttcattac agaccgagca agtcctgggg 420
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<210> 13576
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-C12
 <400> 13576

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 <223> Clone ID: LIB3060-021-Q1-K1-F9
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<210> 13578
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H4

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 ttggtcttgc acttgtgaag cttgacatca ggcaggaatc tgatcgacac acagatgtcc 240
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<210> 13579
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 <212> DNA
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<223> Clone ID: LIB3060-041-Q1-K1-A12

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 caccacacag gacgaaatgc gctatgggat gagctacatc catgagactg tatggaaggg 420
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 <223> unsure at all n locations
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 caagtgttcc cagagataat ggctcctctt gttggaaca 399

<210> 13581
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-C1

 <400> 13581

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<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 13582

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aggccccgc acgccaaagc cgcggcgctc atccgctccg actccggcgc gggacggngc 360

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<210> 13583

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 13583

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gctcgcgct gagggccgct gttgacgccg cgcgataca gacgacaaa aagagggtgt 420

tccactt 427

<210> 13584
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-C7

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<223> unsure at all n locations

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<210> 13586
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H3

<400> 13586

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agcatcaacc agatcactgg cctcaggggc accgccgtga acgtgcagtg catggtgttc 240
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<210> 13587

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F2

<400> 13587

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<210> 13588

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D4

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<210> 13589
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H3

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<210> 13590
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 <212> DNA
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<223> Clone ID: LIB3060-004-Q1-K1-D9

<400> 13590

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<210> 13591
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C10

<400> 13591

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<210> 13592
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-B2

<400> 13592

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gtccaagtcc agtactcttc tttccctcaa ggaactcttg cagccggccc ctctggtttc 180
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tgaagctgag cgtgctccgt atccgcccgt cccactcctt ctccgtcgcc ttcctctact 360
ggttctacgt cttctcatga acgcatcgcc cctctccaac tgctgatcct tcgccgtctc 420
tccctctctc tttctc 436

<210> 13593
<211> 360

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-A2

<400> 13593

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cgacggcccc gagtggatga tggaggtggg cggcgcgggc gccacagga agggaaaag 180
cggcgcgctg gacaagaaca agaagcgctt cagcgaggag cagatcaagt ctctcgagtc 240
catgttcgcc acgcagacca agctggagcc gcgccagaag ctgcagctgg cgcgggagct 300
cggcctgcag ccgcgccagg tcgccatctg gttccagaac aagcgcgcg cctggaagtc 360

<210> 13594
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G9

<400> 13594

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agaccgacta gctcgatcta gctgctgagg cgtggccatg gagggcgacg acgacggccc 120
ggagtggatg atggaggtgg gcggcgcggg cgccacaggg aagggaaaag gcggcgcgct 180
ggacaagaac aagaagcgct tcagcgagga gcagatcaag tctctcgagt ccatgttcgc 240
cacgcagacc aagctggagc cgcgccagaa gctgcagctg gcgcgggagc tcggcctgca 300
gccgcgccag gtcgccatct ggttccagaa caagcgcgcg cgctggaagt ccaagcagct 360
ggagcgcgac tactccgcgc tccgcgacga ctacgacgcg ctctcttgca gctacgag 418

<210> 13595
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G10

<400> 13595

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ggagtggatg atggaggtgg gggcgcgggg cgccacaggg aagggaag gggcgcgct 180
ggacaagaac aagaagcgt tcagcgagga gcagatcaag tctctcgagt ccatgttcgc 240
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gccgcgccag gtcgccatct ggttcagaa caagcgcg cgctggaagt ccaagcagct 360
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cctcaagagg gagagcacac gctt 444

<210> 13596
<211> 377
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 13596

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accggctccc agccgataca aggtaggagt gagcagcgtt agatcagttt tcatcacagg 180
atcgatatgg tgacagtgag agaggagact cgcaaggggc catggacaga gcaagaggac 240
ctgcaactgg gctcaaccgg acaggcaaga gctgccggct gcgctgggtc aactacctnc 300
accctggcct caagcgtggg cgcagtgttc cccatgaaga ggcactcatc ctagagcttc 360
acgctcggtg gggaaac 377

<210> 13597
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-041-Q1-K1-C5
<400> 13597

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gctaatagcc gccaggttct gttggcaacc ggtggtggcc atcttgttta cctggaaatt 180
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 gatttgaacc caattgggga gaatccacaa tatagttccc tagctgctgg tgggatgtgg 300
 acagatataa gtgttagaat attttcactt ccagatcttg aattgataag gaaggaaaat 360
 ttgggtggag aaattgttcc tcggtctggt ctgctgtgca ccttggaagg ggtttcgtat 420
 ttgc 424

<210> 13598
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C5

<400> 13598

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 cggcggagga agtgagcaag aaggtgcgga agccgtacac aatcaccaag taccggaaga 180
 gctggacgga tcaggagcac gacaagttgc tcgaggccct gcagctcttt gatcgtgact 240
 ggaagaagat cgaggctgtc gatggctcca agactgtcat gcagattcat cttacatcca 300
 taggaactct ggcatgaacg tgctgtttg ttcatgggct catagttaca tcccacaagc 360
 tgatgcttca tcaatggtga aagatttatg tgctggaaca ccaggttcaa acaatttctg 420
 ctcaagtagt actg 434

<210> 13599
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F3

<400> 13599

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 gggtagcgtg cgcaggaaga agaaggcagt ccacaagact acaaccacag atgacaaacg 180

gcttcaaagc accttgaaaa gaataggagt gaacagcatt cctggtattg aagaggtaa 240
catctttaaa ggatgatggt 260

<210> 13600
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-010-Q1-K1-A4

<400> 13600

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ttattgagaa tccgcatgct ccgttattag atcctttact atctgtgaga ttctacgaaa 120
gaactcgtga acaacaagca gcacttgggtt ttcttgetga accaccaaaa gaacaacctg 180
gagaggctgt attgcctgct tcagcagtggt aatccaattc tgatgggttg caaagcgtgc 240
cccatggctc agttggagct gttgcaggct gtcgtgctat agctcaggga aaccctgatg 300
aagttgctgc agcatttgtt agatattcag caccagaaga ggttgatact ttaccatcaa 360
catgtggagc ctgtggaaca gaatgcgtca cacgtttctt tgctacaaaa atcccatatt 420
tccgggag 428

<210> 13601
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C3

<400> 13601

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cgcgtgactt ccggggaact cgaagatgag ttccgtgtgt ttggagttct gcgaagtgtt 180
cgggtcgcac gcaaaccacc tggtttttga tttattgatt ttgactacag gatggatgca 240
gaggatgcta ttcgtgatct 260

<210> 13602
<211> 260

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-G8

 <400> 13602

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 gtggtcgtca tgtggcagtg caaggagcgc cacttctagg tcaaggccta catgtacttc 120
 gtaagatacc gtagacgaga ttgtctaata accattgctg aagatcaagg gttatcggtta 180
 tcaataaagg tatctgcaag gatggtgatg atcataggtc taagactgct aaggatggac 240
 atgccatagg ccaatagctt 260

<210> 13603
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-G9

 <400> 13603

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 aacaggtaac aacagtggcg taagtataca tgcgcctcta ttagttgaat ctggacaaaa 180
 ggcatcacct ggagttgaat tgcgtggtat tgaggttgat gtcctggtt tggaacaagc 240
 aaagatggtt tcagctctag aaccagactc tactccagaa gtttgtgctg acaagttaga 300
 accttctggt gctgatgatg ttggaatgat tgttgtccag gaggctgctt ctgttgatga 360
 tcacaataga gcacaagggtg gtgagggc 387

<210> 13604
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-054-Q1-K1-H1

 <400> 13604

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ctactccggc cgagccgacc gacgctgcac gtgacgtgcc aagccgccgt ctctctctcc 180
tctctctccc agccgccgtc gtccccgtcc aggaggtcag cctgcctcct cggcatcgcg 240
tgcgccgtcc tgctccgccc acgtgccgcc tccgccggccg aaactgacga agagccggcc 300
aacaacggct ggtggctgac cgagttcccc ttgccgtgc ccaagatcgt caacaaggag 360
atcaacaacg cggagacggg cacgcgtcc ttctcaaga acggcatcta catggcggac 420
atcgggceca gcttcgcggc gcacgcgtac cg 452

<210> 13605
<211> 433
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-H10
<400> 13605

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ggcccccttg ctgctacacc agcacctttt cgctctccgc tgtcatccct tgcgcagcca 180
caatctccca cgcaaggcgc tttgcctaca ccaccaacat atgcgaggcc gctgtcacia 240
ccactacagg cgcattggta ttaccctggg gcaccacctt cgaaccctca atttccgatg 300
tcaaggccag catttcaaca acctgtgcag aatatgccac cttctccaat agggtcagct 360
gccacatttg gtaaccaggc agcttatcaa agtggcgggc ctncagttgg aggcacactt 420
cagagtttag tgg 433

<210> 13606
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-054-Q1-K1-H11
<400> 13606

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cctggcgtcc cgcgaggccg actactacca gcagggcgcg cggttcgcca agtggcgcac 120

cgtcgtcagc atccctaacg gcccctccga gtcgcgcgtc aaggaggccg cgtgggggct 180
 cgcacgttac gccgccatct cacaggacaa cgggcttgtg ccgatcgtgg agccggagat 240
 cctgctggac ggcgagcacg gcatcgagcg cacgttcgag gtggcgcaga aggtgtggtc 300
 cgaaaccttc tacgccatgg cggagaacaa cgtcatgttc gagggcatcc tgctgaagcc 360
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<210> 13607

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H12

<400> 13607

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 cgccgtcagc atgcctaacg gtccctacga gtcacccgtc aaggaagccg cgtggaggct 180
 cgaacgttac tccggcatat cacaggacaa cgggcttgtt ccgatcgtgg agccggagat 240
 cctgctggac tgcgagcacg gcatcgaacg cacattcgag gtgtcgacaa aagtgtggtc 300
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 gt 362

<210> 13608

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H2

<400> 13608

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 ttctgtacc agccgccgtc ataccgtcc aggaagtcag cctgcctgct cggcatcgcg 240
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aacaacggct ggcggctgac cgagttcccc ttgcccgctgc ccaagatcgt caacatggag 360
atcaactacg cggagactgg cacgcgc 387

<210> 13609
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H3

<400> 13609

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ctgacaccaa gcattttctt aagcttgctt gaggttagcg ataagctagg tagcagcact 180
gatggatgca tgcattttgt acgtttcaat atggacagca gcatttccat gggtcaccac 240
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agtgaaatgg cctgcagtat tcacgatcct atggaaagca gaatggtggc cgtaacctgc 360
ggacgacgcc gtctgccaaa agaaacgttt gctcacccgt tatatatata tagttgatta 420
gtacatacat atatatatat atatatat 448

<210> 13610
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-H4

<400> 13610

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cgctgccac gctgcccgt ctcgttattg gtcttcattc ctgcaggagg attcgccatg 180
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cagcttgaag accactttcg tggctcttga cagtccttca agataaagtt tgacgagcta 360
aaagagcatg agaaggagtt ccaggagact gtcgcanaat cagagcagat tctggag 417

<210> 13611
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H6

<400> 13611

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ggatacgcgg catacctcaa gtacctttca caagtttacg agtgacagca acaagagatc  180
gatggcctct gccacgtgc tcaagtcctc ctcccttccc aagaagtccg aatggggcgc  240
caccagtgca tgccgcgcgt cccaggccga ccaccgtctc catggtcgca cgcgcctgcg  300
tctacgccga tgagctcgag aagaccgcta aaacgatcgc gtcgtcatcg cggggcattc  360
tggccatgga cgagtcgaac gc                                     382
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<210> 13612
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G7

<400> 13612

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aaccgaccct gcaaggttgt ggaggtttct acctcaaaga ctggtaagca tggccatgcc  240
aaatgccact ttgttgccat agacatattc aacgggaaaa agcttgaaga tattgctgct  300
tcatcacaca actgtgatat tccgcatgtg aaccgtactg agtaccagct gatcgatata  360
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<210> 13613
 <211> 427

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-054-Q1-K1-E9
 <400> 13613

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 gcccgcggcc gggttccagt gcatgcaacg aagtttctct ggggtcaaaa accacctcga 360
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 angtatc 427

<210> 13614
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-F1
 <400> 13614

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<210> 13615
 <211> 413
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-F11

<400> 13615

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acatgatgga ggcaaaccgg tgccgaggat cccacagtcg tggacatcgc cgggacgcag 180

ctgatgccga aggaggaggc gctccagctt tgcaccggct gtgtccactt ctagacttcc 240

ttgcctcgcc tatcacctcc aggaagtgat acccaccttg gaagaatttg gggatgagga 300

tcccacgtcg caacgttcca tagtgcccct gccccaccg atgtccacgg ccgtcgcgcc 360

cgggcatggc agtccgctcc cacgcgatgc aagtccatcc ncaccgtcgc agc 413

<210> 13616

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F2

<400> 13616

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aaatattatt acaaatataa ttaaaaattc atttatttgt aaaaatatca gaaacacaaa 180

ttgattcatc tattttctag agtctagtac ataaacaaaa ctttttttaa agtggtgatc 240

ttttatgtca taataagtat tggatgctgt tctcgcacta gaccaggttt gaaagttcta 300

cggattttat cgtgttacta catccttaat ttcttactag gtgag 345

<210> 13617

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F3

<400> 13617

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ccctcgtctt ctcggacgtt cgtttccatc gccatggcgg accagcttag cgaggagcag 120
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<210> 13618
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-F4

<400> 13618

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aacaacaagg ctctctgcaa caatccattc tcatccatgg cgaagctcat gaacaagttg 180
gtcgattcgt tcgagcacga cgagataccg gacgtcggct gcgtgcgcgc cgtgctggcc 240
gagctcgtac tcaccttctt cttcgtcttc accggcgtct tcgncgtcat ggccgtcgga 300
tccgacggga agccccg 316

<210> 13619
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-F6

<400> 13619

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ctagagattg agctggccga ggtcgaaatg cccggcctca tggcgtgccg cgccgagttc 180

ggccccgtcca agcccttcgc cggcgctagg atctcgggggt ctctccacat gaccatccag 240
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aacatctttt tcacgcagga ccacgccgtc gtcgtcatcg cgcgcgactc ggccgncgtg 360
ttcgccctggg aggtggagac cctcgaggag tactggtggt gcaccgagcg ct 412

<210> 13620
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F9

<400> 13620

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cttggacctt ctctggtcgc cctctacaat ccaactgcaac cagccttttc caccgccctc 180
tcaactgttt tccttggcga cccagtttac ctcggaagcg ttattggggg agtctccata 240
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gatgcttgtt tggacctctt tattattgtg gataatccaa gaatccccaa gacacaagaa 360
agtcctctcg tgtagatcct caaaaaatgt gtcgattatc cacacatttg tataggtggt 420
ctacagtata c 431

<210> 13621
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-G2

<400> 13621

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cggccgcata atcgttccgt cccctgagc gttcagtaac ttcttccgat ccatattatg 180
gcttcaaagc agcagcagaa acagttcctg gatgaagcca tgatcaagca gccgacaccg 240

gaggaggacc gtgagggcgc atggccctca gtgctgacga tcatcggtt tggattccta 300
accttcaact cattcatggc tgtgtacagg tcaaattggag atgttggatc tatnctcttg 360
gggtcttctc 370

<210> 13622
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G3

<400> 13622

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catacaagcg tcaactacatc aggaccactt agtatcttat aatagatgga ctattgtctg 180
aatacatgct aatccatata cattactgcc actgctcagc ttgcacagca tatacctaaa 240
gtaatgctc 249

<210> 13623
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G4

<400> 13623

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accaatctca aaggcaaccg agctcatgca gcgaacactg gttggggccat gctggcgctg 120
attgatgcag gacaggccca gagagatccc gcgcctctac accgagcagc aagggttttg 180
ataaacttgc agtcagagga cggagaatth ccccagcaag agatcatagg agtgttcaac 240
aagaactgca tgatcagtta ctgccagtac aggaacacct tcccgatctg ggctctggga 300
gagtaccggt gccgagtcct gggagctggc aagctgtaat gaccggcct ggccccgtca 360
actcgactga aaaggcgtct tgtgtctcgg tgttcttggt gttctatctt ggcacg 416

<210> 13624
<211> 437
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G5

<400> 13624

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ctgcaagggt cttgatgtca ttcagcaagc acaatctggt acaggaaaga cagcaacctt 120

ctgttctggg atcttgccgc agctggacta tggcctggtt gaatgccagg ccttggtcct 180

tgctcccacc cgtgagcttg cacagcaa atcgagaaagtc atgctcgcgc ttggtgatta 240

ccttggtggt aagggtccatg catgtgtggg aggaacatcc gtccgtgagg accaaaggat 300

tcttggcagt ggtgtgcatg ttgttggttg tacacctggt cgtgtgtccg atatgctgcg 360

cagacagtgc ctccgccctg ataacatcaa gatgtttgct ctagatgaag ctgatgaaat 420

gctttctcgt gggtttca 437

<210> 13625

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G6

<400> 13625

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cccagtcctc gcgccccggc gccgaacgcg ccgtctactc tcgctccctc cttttacccc 120

gagcttaagc tcgcgctac ctgcctacct atccgtaaga gaggaagagg ggacaaggcc 180

cggtcggtcg gtcggtcggt gggctctcgg atctcgccga tgtctgcccg ttcgttcggt 240

gggatctcgc gccatggccg tcgtctcgcc gtccctcggtc cccgcg 286

<210> 13626

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E8

<400> 13626

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tgaccctgag cccgggatcgt ttccactgga gcttgtgtac aatatacctt cagtcctgaa 120
 gcgtcacata cgtcgaatac tcgcgcataa cctattactc tgaacaggcc gcactccagt 180
 catgtatcac aattctcaca tgctcacagc tcacttccat atttcagatc tggatccaac 240
 cacttattac gctgacattc tttatcgtca actattgaaa 280

<210> 13627
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D1

<400> 13627

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 cggaagctct gggcctgggc aactgggtga aggcgcatga gtgggcggcc gtccccggcg 180
 ggcaggccac gtacctgggc gccccggtgc cgtggggcac gctgccgacc atcctggtga 240
 tcgagttcgt ggccatcgtc ttccgagc accagcgac catggagaag gaccccgta 300
 agaagaagta ccccggggc gccttcgacc cgctcggctt ctccaaggac cccgccaagt 360
 tcgaggagta caagctc 377

<210> 13628
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D10

<400> 13628

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 atcaccatgc gcaagaccgt gggcaagccc aagggtggcg cgtccggcag cccctggtac 180
 ggccccgacc gcgtcaagta cctcggcccc ttctccggcg agccccgag ctacctcacc 240
 ggcgagttcc ccggcgacta cggctgggac accgccgggc tgtccgccga ccccgagacc 300
 ttgcgaaga accgcgagct ggaggtgatc cactcccgct gggccatgct cggcgcgctc 360

ggctgctct tccccgagct gctctccgc aacggcgctca agttcggcga ggccgtctgg 420
 ttcaaggccg 430

<210> 13629
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D11

<400> 13629

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 gtatcaccat gcgcaagacc gtgggcaagc ccaaggtggc ggcgtgcggc agtcctgtt 180
 acagtcccga ccgctgaag tacctcgaac cattgtgagg cgagcccccg agctacctaa 240
 ccagcgagtt ccccgccgac tacagatggg acacctccgg actgtcctcc taccgccaga 300
 ccttagccaa gaaccgagag ctggaagtga cccactgccg ctgagccatt ctccggggcg 360
 tcagctgatt ctccccctag ctgatctcac gcaactgt 398

<210> 13630
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-D3

<400> 13630

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 ctctcgcaac tctcttctgt actctcgtc tccaacgccg gcaacaacta cagagcttca 180
 gcttcccaag cgcgagacat gcgtgcggaa acacagacgg cggagtagcg tagcgccacg 240
 atgggattgc caagctggta ggtagccaag aagacatgag atggggggcg ccttgggctc 300
 cgccgccagc aaggaccggc agcaggagca cggcggcgag gctccgcgac cagatccctg 360
 caagaagacg cggctctcgt ccnctctctg cactatccac ggtagccact gtcactcgag 420
 gctgatccca gggctcccg atgaggtc 448

<210> 13631
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D5

<400> 13631

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tcgccgtcga aattcctgac gcgcgtgcc agcgtcgctc ctctgctcga gttgggtcctg 120
gtggccgctt tttggaaaca gactcgaccg caccacagcg cgagcttctt cctgctcatg 180
cccagtcgct ctctctctgt ttgccgcttg tccgtctccc tgggtgctgc cggcgcgct 240
attccttttg cgcgcctggc tagttctagc tcgaaccaa cgtctgcgc ctgttcgccc 300
ctgctgcgcg cagtcgcgca gctcgcggag ctctcttgcc gtggcgctgc cgtccctgg 360
cctagccttt agctcagtct ctatgcgcgc gagctcgccg gtgtgctgct agtctaactg 420
ggatctcgcc catggcgctc atctgt 446

<210> 13632
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E10

<400> 13632

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atagtatcta tgcttgaag gaaatcaacg gctagagcaa ctgttgtccc agaccccgac 180
tataggttac caatcgctat acttgggatt gctagtgtt ttgcatatgc cgacaatctt 240
ctcgtgctg cacctgtagg actgctgggg cttcttcttt tgttccagac tacaagagtg 300
aggttcgtct ttgataacga ggccctggag gtgaagggtg gagagcagct gcaggagtca 360
ggtgaaaatg tattcgtcgg cggcaagaac cgttggaagt actcaacgtt cgtaaactgg 420
gagctgtggt g 431

<210> 13633
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E11

<400> 13633

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ggccacagca gaccagaccc tggaggacgt cgagtgccac ttcgaggccg tgtcggggct   120
tccggctcgtc gacagcggcc tcagatgcgt cggggtgata gtcaagaacg accgggcaag   180
agcctctcat gggccaaga cgaagatata ggaagtgatg acatctccag ctatcacact   240
atcgtctgac aaaaccgtga tggatgctgc tgttctcatg ctcaagaaga agatccacag   300
attaccagtt gtaaaccagg acgaaaaagt aataggtata gttaccgcg ctgatgttct   360
tcgcgtgttg gaaggcatgt tgaagattta ggagcgaga taccatgct cggaagccac   420
a                                                                    421
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<210> 13634
 <211> 176
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E3

<400> 13634

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ctaaacttca taactgttgg tacgctcacg agcatggttg acacatgtga gtactc      176
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<210> 13635
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E5

<400> 13635

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ggaggagcac ccacatcctg ccgtgccgga gctgccagaa cctgagctgc cgccgcaccc   120
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taccgacgtc gtgccgctg agctgccc aa acccgagtta ccaccgcacc cggccgttgt 180
 ccccgagctg ccgaagcctg aggtgcctca tcagggtgccg gagcagccga agcccgagct 240
 gccaccgcac ccgacagccg tccctgagct cccgaaacct gaggtgccgc acccagtgcc 300
 ggagctgcc aagcccgagg tgccaccgca cccgacagcc gtccctgagc tcccgaacc 360
 tgagggtgccg catccagtgc cggagctgcc caagcccgag ctgacaccgc acccggcggc 420
 cgtgcccag ct 432

<210> 13636
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E6

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 atcttcgacg aagcccgca gattgatcga ccttagctga cgcgagggat tggaaagcga 240
 acgctcgggc gtagttaatt ttctaggaag attgggggtt cagctcaaac ccccatgctc 300
 gatgctgagg acgaccctgg cgggagatga cgaggatctt cgtgcagcgc gggaccgccc 360
 gctactcgtc cagctccggc cgctcgggct cgcaatcagc gcacagccc gcagcagc 418

<210> 13637
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B4

<400> 13637
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 gcgtcacggt actagctcca gacgcgtccg ccgttctgt gccgctttgg ccgtcgcagc 180
 cgcgctctc gcagtcattc tcgcccctccc gcgtgaccac gtccgggagt gcgccgctcc 240

gategcttct gtctccagtg ccggggatga tgacggcggg ttccgcgagg agctgcgggt 300
 ggaggtcgag cagcttaagc agcagctggc ggggcttgaa tctctttggg atagtaaate 360
 gaaagctgtg gatgataaac ttgattcttt agaggaggat aatggccgtg taat 414

<210> 13638

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B7

<400> 13638

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 cccattcact atgggtcgaa ccgtctgaac tatttcacag tctcgtcacc tatcgcaaca 180
 cagctccgc atgctgttgg agctgcctac tctctgaaga tggacaagaa ggacgcgtgt 240
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 ttcgcggtg ttatggatgc accggtgatc ttcttctgcc gcaacaatgg ctgggccatc 360
 agcactccga ctactgaaca attcagaagt gatggagttg tcatccgtgg ccaggcttat 420
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<210> 13639

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B9

<400> 13639

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 gcagctcatc ggagcagcaa cgctcgacac tgagtagccc accgtggagt cacctcatca 180
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cgccatcgtc tcttgggaaa gattataatg tctttggctt aattagttac ttcattgtgga 420
 ggtcttgaag ctt 433

<210> 13640
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C10

<400> 13640

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 acaccctgac ttcaaccgtg aagggtcctc tggcctctcc gtcattgcaaa acgtacggct 180
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<210> 13641
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C3

<400> 13641

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 cccgaggagg cgacgcgccc ctcgctgccg gtggcgtaag agcaagcggg cgcggcgac 360
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<210> 13642
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-C4

<400> 13642

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aggtattgcg agacagccag aagcagaagg taaaataaga ggtactttat tgcttagtct 180
agcttttatg gaagctttaa caatttatgg actgggtgtg gcactagcgc ttttatttgc 240
gaaccctttt gtttaatcct aaaaaagaaa atgagtcctt tagattagat acttttttct 300
tttttagta cattggcatt tgcttatgta attctaagta tatcaatact ttactttact 360
cctatttatt atattatttc ttttttatat tattccggaa attntgtatt tategggaca 420
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<210> 13643

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-C6

<400> 13643

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cgtccccgcc atggatacgt cgggctcctc cgcagccgcc ggcgacgccc cgaccaccgg 180
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ccaattgaca gacaatgtgt acgtttgtcg ctctggatct gctgctgata cacatgtcat 360
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t 421

<210> 13644

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-C7

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cctcgtcgcc agaggtatcc tcgggcagca atatccactg gcgacgcagc cgccacagcc 180
gctacgttcc ctccctcacc gncatcacca cggttaggtg gaagcgctcg gcgaggtagc 240
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gttgccggtg gcggaggagc aggcggtcgc cggggacgcg gcgcgcccct cgtcttcagc 360
ggcgcccag gagggaggag cagccgctgg aaggaaggcg t 401

<210> 13645

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-054-Q1-K1-B2

<400> 13645

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agtcgagctc ggcatcagct cccttgctgc tcactttgca gcacctcgcc agctccctgg 180
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cgctgggtgc gtgtcatct tccgtcgcgt gccacctggg cgatagaatg agcagtttgg 360
tcgtcccat ctgcgcgtgg ttcgtctca ccatgtttc agatgtgttt gggctgagat 420
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<210> 13646

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H7

<400> 13646

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 gtgtatggat cactgtttgt tctcaacaag tacaatgaga tcccatcagt catggccatt 180
 aagatcgcaa gctgcctctt gactgtcatt ctgatatggg aaattcctgg tgtgtttgga 240
 attttctggg caccatttac gggtctggta gggtagcaaa acccaaaagc ttctaagaag 300
 aacctaaccc tggtagacca atggcgcttt cggttttgcc ctgatcggtg catatggatc 360
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<210> 13647
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H9

<400> 13647

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 accatcacco ggcagcagta cgggcccggtg tggcgccctgc tgcgcgcaa cctcgctcgcc 120
 gagacgctgc acccgctcgcg ggtgaagctc ttgcgcgcgg cccgtgcatg ggtgcgcccgc 180
 gtgctcgctg agaagctcgg ggaggccggg cccgacgcgg tcccgccccg cgtagtggag 240
 acgttccagt acgcgatggt ctgcctcctc gtgctcatgt gcttcggcga gcgccttgac 300
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<210> 13648
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A1

<400> 13648

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 cgacaggggc cccacgctt ttcagcccgg cgccgaatcc tactccgccg ccgacgcttc 180

cgcacatgtg gagccacagg tggacggaac tgggtccggc accaccgtcg acttcaagtt 240
 ctgcgcctcc tgctcgtaca ggggaactgc aatgaccatg aaacggatgc tggaaacctc 300
 ctttcctggg atccatgttg tcttggaata ttatcctgcg acgttcccca aacgcgctct 360
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 gatcttcccc aggtttggaa tg 442

<210> 13649
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A10

<400> 13649

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 tttggtggtg gctcgtctgt ctgatccgcg ctctgctgct tattcttcgc ccgccggact 180
 gtatgacaac tataacagta cctacgtgat cacaggtcta ggcatttgcc ctaccagtac 240
 agtacattgg actagtaata actagtatgt atccagcaaa ccgacacatg gatccatact 300
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 catgcggtca tccacaggca atggactcat c 391

<210> 13650
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A11

<400> 13650

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 tcgaaacgcc gatcaccatg cgctaagacc gatggcaaga ccaacggatc cgagctctga 180
 tgccactgct tcggcccccg cactgtataa caactatgac agtacgtacg tgatcccagg 240
 agtaaccata cgtactagca ccacagctca taggactagg actaaccagg acttatccac 300

taaaccgaca c

311

<210> 13651
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A2

<400> 13651

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actcctacgg aatgggcctc accaacctga accttgcccc gacctacggc aagatcgccc 120
tcttcgcggt ggctcgcctc gtcggcagtg atggcggtgg agtcacgccc ggccttgacg 180
cctgtggcat cgtaatgtcc gttgcctggt ccacagccga tctaatacag gacttgaaga 240
gcgggtacct gacctctcgc tcgccgcggt cgatgttcac tgcccagctg atcggcacgc 300
cgctcgggtg cgctcatagc ccgctcacgc tgtggctctt ctggacagcc ttcgacatcg 360
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<210> 13652
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A7

<400> 13652

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cacaagccta tgagggttttg agtgatccag agaaacgtga gatttatgat cagtatgggtg 180
aagatgccct taaggaagga atgggcgggtg gaggatccca tgttgatcca tttgacatct 240
tctcatcatt ttttgaccc tcttttgagg gaggtggtgg aagcagcagg ggaagaaggc 300
aaaggagggg agaagatgta gttcacccac ttaaagtctt tctggaagat ctttacaatg 360
gcacctcaaa gaagctctct ctttcgcgca atgtcatctg ctccaagtgc aagggcaaag 420
gctcgaagtc tgggtgcctca atgaggtgcc ctg 453

<210> 13653
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A8

<400> 13653

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 ctttactgaa atttaatact attaacttaa tatgcccatt ggcgttccaa aagtacctta 120
 ccggattccc ggagatgaag aagcgacttg ggttgactta tacaatgtca tgtatcgaga 180
 aaggacactc ttttttaggt caagagattc gttgcgagat cactaatcat attacaggtc 240
 tgatggtata tctcagtata gaagatggaa atagcgatat cgcgctgtct ataaactccc 300
 ctggcgggtg gctaacttca tgaatggcca tttttgatac gatgcatacg gtgacacctg 360
 atatatatac aatatgc 377

<210> 13654
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A9

<400> 13654

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 cccgcggact gcacgcctcg ccggtagctg acgtcactcg gcccgtgga attttcaagc 120
 tttggtggtg gctcgtctgt ctgatccgcg ctctgctgct atgtcttcgc ccgccgcact 180
 gtatcacaac tataacagta cctacgtgtt cacaggtcta ggcattcgtc ctaccagtac 240
 agtacattgg actagtaata actagtatgt atccagcaaa ccgacacatg gatccatact 300
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 catccggtca tccacaggca a 381

<210> 13655
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B11

<400> 13655

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gcacctcatc ggaacagcca cgctcgacac tgagtagccc accgtggact cacctcatca 180

gcgtatgttc gctaatacagg cgctcgacga gctcggcaag cccctactca gccatgccga 240

gtctccaagc cggctgtaga cgctcgactt tgtttgtgag ctactggcat gcattcttga 300

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cgccatcg 368

<210> 13656

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B12

<400> 13656

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caacaatggc catggagacg tgcttcagag cgtgggcgct gcacgcccc gctggcagca 120

aggacaggct cctcgtcggc aacctggtgc tgccgtcgaa gcgggcgctc gcgccgctgt 180

ccgtggggccg cgtcgccacg cgccggccgc ggcacgtctg ccagtccaag aacgcagtgg 240

acgaagttgt ggtggcggac gagaagaact gggacgggtt ggtgatggcg tgcgagacgc 300

cggtgctggt ggagttctgg gcgccgtggt gcgggcgctg ccggatgac gcgccggtga 360

tcgacgagct 370

<210> 13657

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-053-Q1-K1-F7

<400> 13657

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cgcactctcc catggataca cggaggoccca attggccgcg ctcatgtctt ctttcatcat 120
 ccggaagccg tcgccaagt caccgttcac taatgccgca atcaagacgc ttcagagcat 180
 caggggaactc gagaggttca tagtgaagca taggagggat tatgtggatc tgcacgcac 240
 taccgagcaa gagaggata acattgagca tgaagttggg gtttttgtaa aagcatgcaa 300
 ggaacagatt gatatttaa agaacaggat ccacanagaa gagaagaatg gaagtggaaa 360
 gacatggctt ggcactaggg atg 383

<210> 13658

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F8

<400> 13658

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 gtgtctacga gtagcagttg tatctcgtg acctcaccgc ctgctgggca ccaaggagga 120
 gatgacttac ccgaagcggg cagcatggcg ggaaggggtgc ggatgcttgg cctgcgtcta 180
 cgcggggcct acgcggggcg tgcttgccgc cggcgggtgac ggcggacggt gacagcagct 240
 gatcggccaa gggcaggcac gttcactacg catcagagac ctgatatgtg aatgctagca 300
 atcgggagct aggcgatcat cttcacacaa aacgccatgg ctaaaacggt gttgatgcat 360
 caattgagaa ggagacaccc caggtacttg agtttacctt 400

<210> 13659

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F9

<400> 13659

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 tcgtcggatg ttactaccag ggctatgtgt cttgtctctc ttctgaagct ttcttcccgg 120
 tttccaccaa catcagagag aatacaagaa atagttgcgc aaaatacagg gaatactgtg 180
 cttgaattgc agcaaagatc tattgaattc agttccatta taaaagaca tcagtcgata 240

aaatcatctt tgcttgaacg tatgcctgca ttggatgaag caaattatctt ggtgaagaga 300
gctgcttcta cacaggctgc tgtttcatct gtaaattctg cttctgcagt cacttctgga 360
tgcccactta agcttgcaaa tggcgtatca aagccaccac cagcttcttt agc 413

<210> 13660
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G10

<400> 13660

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gcctcgcgca cgcgccactg ctggccgcgc tgggcgccgg cggcgaaccg cggagctgag 120
ctcgcaactc aggctgacgt agtggcctgc cgcgatccgg cccacgtccg cgcgtgccac 180
cgagaagcag ctgaagcgcc caatgcgttt cgggtccccg cactggacct cagcacgccg 240
tgcccgacct tcagcggcag aaccgacggg ctgctacgga aggcgcataga agaggagtgc 300
tacgtcatca cgt 313

<210> 13661
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G11

<400> 13661

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caccctctcc tctccccgt tgcacctctt gccatggagc tacggtcacc gctgaactca 120
cataactgct cccttacctc ctccattaga ccaccgccac cgcgtctctt ggcgcggggcg 180
ccccccacgc tttccgccac cgcagcggcc gtctcgtcgc tgtccgccac ctacgcggcc 240
atctcgtcgc cttctgttcc aaagaagaag gttctcgtgc ccatcgccat gggtaaggag 300
gagatggagg cggatcatcat cgcgggtgtc cttcggcggg cttccgctga tgtgacgctt 360
gcctctgtgg aggacggcct'cgagggtggag gcgtcctgcg gctccccga 409

<210> 13662

<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-053-Q1-K1-G12

<400> 13662

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ggccgcgggcg gcttcaccgg ctacgacaac gccgttgcg tccccgccgg gggcagaagt 180
gacgaggagg agctccagaa ggagaacatc aagaacgccg tcttctncac cgggaacatc 240
acgttgagcg tcaccaagag caaccgggag accggcgagg tcacggcggt cttcgaaagc 300
gtgcagncgt ccgacaccga cctcggggcca atgcgccaaa gatgtcaaga tccaggggggt 360
ctggtacgct caactcgagt gattcg 386

<210> 13663
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G2

<400> 13663

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ggaaggagca ccaggtgagg aagatcaccg acaaggtgtt cgaccgcctc acggaggacg 120
cccagaagcg cgacaaggag gccctcagat tcgaggaggt ctacatcgcc gtccctctgcg 180
tctacaatga catcaacaag tacttgccgg ggccacacca cgaccccccg tccaaggaga 240
agctcagggc catgatggag gagtacgacg tgaacctgga cgggctcctg gaccgcgagg 300
agttcgcgga gttcatccgg aagctgaccg cggactcgct gtgctcgatc agcgtgaagc 360
tgctgatcac gc 372

<210> 13664
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G3

<400> 13664

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ccaccgcacg cccctcctac tccccgcgcg caccgtcgcc ttgggtgcca ccgtcacccgc 180
gcgcgcgcgtc agggccgctt ctctagccgt cagggcccag cgggatacca ccgctgcagc 240
cgtctgcacc tgcgcgcctg agccgacgcc cgagttcaag cctgcgccgg ggttcaaggc 300
gcccagagccc aagaggttcg aggtcaagtc cggccagctg ggcagcgtcc tcggcgcctc 360
gctcgccatc cccctacgcc tcggcacccg cgtcttcgtc ctcgggtact cgccatctgt 420
tggt 424

<210> 13665

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G4

<400> 13665

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gaaattcccc agcccggttc tttgcgtgcg gttgatctcg tcggaagccc gggcggggggt 120
ccccaatccg gcctcgaatt ccatgggggg caacggcccg aattagatcc ggaacggcca 180
actgggtctt cttgaaaaag ttggcccctg ccaatctagc ctgggtcttc gggttggt 238

<210> 13666

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G6

<400> 13666

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ttttacaata tagtccaag caccagggtg gaattatcac caagtgaggt agatcaccga 120
ctaagtgttc gaccagctca cggatgactc ccagaagcgc tacaaggagt ccctgatatt 180
cgaggagggtc tacatcatcg tcctctgcgt ctacaatgac atcaacaatt acttgcttgg 240

gccacaccac taccctctgt ccaaggagaa tctcatggcc atgatgtagg agtactacgt 300
gaacctagac ggtctctctt accagaagga gttcgccgag ttcattccta agctgaccga 360
agtctcgctt tgctcgatca acgagaagct tcttatcacg ct 402

<210> 13667

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-G8

<400> 13667

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aataggatca tcagaccctg cctgatgcca acgaacccaa ctacatcttc ccttgcgaca 180
tcgtcgacat tgtaaacttg gcccgcatgc atacatacgc agcctcttac gagcgccaat 240
ggaca 245

<210> 13668

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-053-Q1-K1-G9

<400> 13668

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cgcggcagct gagctcgag ctcgcgctgc cgctcgctgc ctcccgcggg ccggccccgc 180
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ccaccggcgg cgcgncatc atgcgggagg gcccacccc tttgaagctg gcgcgc 416

<210> 13669

<211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H10

 <400> 13669

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 acagatcttt gacctgtgcc actgcaagga tgatctgagg cccatggtgc actctaccat 180
 gcgctagtat accaagcctg gtagtccttc gcttactgct gccagaccgg aattaccta 239

<210> 13670
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H11

 <400> 13670

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 gtctctcttt attcgcgctc caccgcgcgc cgaaccgggt cccgaactac gcgtcgctct 180
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 aacggttcct tttccttt 378

<210> 13671
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-H12

 <400> 13671

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 aa 62

<210> 13672
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H2

<400> 13672

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agcaggctcc gcatccggct ccgtaaaacg cacggcctgt acctgcactc cccatttcca 180
cgctttctct ctctctccg cagctctctg cgtgcgcgcg cggtgctcg cgggccccag 240
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gagaggagag agaaactgtt ggccgcgcgt tttaggata cggagaggga gtctgctgga 360
gttggtctta gagcccgag agctggagaa gctagct 397
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<210> 13673
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H3

<400> 13673

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gacaagttaa aatggggctg aatgggttga gctattggtc agggagatga ctaatgctta 120
tgacatagat aatgctcggg ctaatgcgtc cagagcgctc taggctttgg cgatatcaat 180
cgtatagcgt tcaggatctg aatctacaca taacctttat atggtaatca tgattctcaa 240
agagctgctg actgttgaac tgcgagagaa cgctttactg aagcggtcgg ttgccattaa 300
ccatgagctt cta 313
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<210> 13674
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D9

<400> 13674

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agcttggccg gctatcattc tcatcgtatt cgcgccgtac caagcaagaa gcctgttgtg 120

acgatggcct tcctacatta cttccaaggc aagacgtatg cacagacaac gaactcaaaa 180

gttcaagaat tcagctcgca atgagggact atgatcagtg tgacattaaa agatgcactg 240

gtcgtaaact ttcaagatcc gggcttgtga acgagtcgag agtgaccatc gcgtttggag 300

gagttgatct cagccctg 318

<210> 13675

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E11

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ccgcgcggcc tgctcccgcc caacgtgcgg gcctacacgc tcgactccgg ctccggggac 240

ttcgccgtcg acctccgctc cagctgccgg atcgtgctgc ccgcggggag ctacctcgcc 300

gccttcagcg accgcctcac gggccgcctc gacgaccgcc gcatctcggg cctcgacggc 360

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<210> 13676

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-053-Q1-K1-E12

<400> 13676

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gactcctcct cgtccccgcc cgacaccacc gcgtacgacg agctccgcct ccggggcttc 180

ccgcgcggcc tgctcccggc caacgtgagg gacctacagc tcgactccgg ctccggggac 240
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 gacttcagcg accgntcac gggccgtctc gacgaccgtc gcatctcggg cctcgacggc 360
 atccgcgtca aggccttctt ccgctggtgg tccatcac 398

<210> 13677

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E4

<400> 13677

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 ccgctgaagt tggcagtcaa gcaggcattg gatgttgac gtggcatggc ctatgtccat 180
 ggccttgggt tcattcatag agatcttaag tcggacaacc tcctgatttc tggtgataag 240
 tccattaaga ttgctgactt tggagtggct aggattgaag tcaagactga ggggatgaca 300
 cctgaaactg gaacataccg ctggatggct ccttgagaag tggcagttaa gaagaggtgg 360
 agcaatatgg gacgaaggaa gctttggtct catttggttc catgaactag acccaacaa 419

<210> 13678

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E8

<400> 13678

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 tgggtggccgg cgatggactg cgtctccgac ctctgtggaga cctgcgccac cgtcgtctgg 180
 ctgagctcgg cgtaccacgc gtccatcagc ttcgggcagt acgactacct gggcttcgtc 240
 ccgaacgggc cctccatcac cagcggccg gtgccgggcc cggacgccgg ggcggaggtc 300
 acggagtcgg acttcctggc gagcgtcacg ccggtcaccg aggcgctcgg cttcatgtcc 360

atcgccctcgg ggccgatggg gctcaagggc acggaggtgt acctggggca gcgcccggac 420

a 421

<210> 13679

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F1

<400> 13679

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cgcccaagat gctgacctac gacgagatcc agagcaaaac gtacatggag gtgaaaggca 120

cgggcacggc gaaccagtgc ccgaccatcg acggggggcgt ggaatcgttc ccgttc 176

<210> 13680

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F10

<400> 13680

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agataatcaa ttgccagtgt tgaccattct cacatttctt taccctacct tagccagaac 120

attctacgta gttgctggcc tatatgatac ttgctccata ttcattgtaac acttttctga 180

agttgaagaa gatattctatc atagttgagt tccattattc atagacatca gtcgatcaaa 240

tcatatatgc ttgaacgtac gcctgccttg gatgaatcaa attatttgat taatagagct 300

gcttgtacac tggctgctat ttcattctgta aattatgctc ctgcactcac ttat 354

<210> 13681

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F11

<400> 13681

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atgtgagcca gcaaagtata tgtgcatggg agccacgttg agttgctcct gcagtgtctgc 120
 tgtgctggca tgccccaaaa ttcattgttca ccaagttgtg gtcgagttcc atatgcctac 180
 ctacataatc agtgatgcct gcccatatat atacaaccct ttgggttgggc tcagtgaagg 240
 tctctccct gtcacgaat tatttccaaa gattactgta ggggtgtgcg tcgcatgtgt 300
 tctgtctagg atgaatcttc tgcccagtct gtacatcgat ctgcttaagc tggatatgtgc 360
 caccatgt gctggttacc acggtgcag ttataccagc tc 402

<210> 13682

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F12

<400> 13682

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 gtcggcacca atggcttact accaggaggt ggactactgc tcggaggagg tgaggtcggt 120
 ggccccggcc ggcttcggcc gccacggcgg cggcgctccag cagcacgtcg tcaaggagaa 180
 gttcgaggag gtcgacacgg tcgcacgcgc cggcgccaac caccaccacc accatggtca 240
 ccacggcggc caccgcttcg tgggtgcgcga gaccagggtc gaggaggaca tcaaacctg 300
 caccggcgag gtccacgagc gcatggagag 330

<210> 13683

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F4

<400> 13683

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 agagagagag aaagatgggt ggttcttaca ccacctacac ttccagcact ttactctat 120
 gtacaaccct aaccagatac tcaaaataac tctacagtct aaccctaaca actgacatgg 180
 cttacaatac caaactctta tttttcaat 209

<210> 13684
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F5

<400> 13684

ggcatcaccg tcgcgacgac gatggcagcc tcgctccaag ccgcggccac cctgat 56

<210> 13685
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C2

<400> 13685

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 aagctagcca ttccttctgt gtaggcgtct ccagcccatc ggcgccacct aatataccta 120
 catctattgc taacacctca gatctcaaac gctagccagg taaaatgcc aagatcaaatac 180
 aaatgttcac ggcaaattct agaattgatgg cggatatttag tgccttgaca tcgaatccag 240
 agcagctgac attcgacgaa accctcatat ttgtcaagaa agtgaaggcc cgcgattaca 300
 tgctatacct gtcattgttc gacattcttt gcataatgga actatcccag ctcgatgcct 360
 accgagagtt acagctgctg tttggaaacc acccgatct gtgcgaagag ctcgagaagt 420
 tcatgccacc ggtgcctac 439

<210> 13686
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C3

<400> 13686

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 catcgtctca aaatccacca gaattcatta taccagtact ctcacatcta aacttaaaat 120
 atatctacat ctactataca tcgattaaga gtcattggcct gcaccatacc aatgtccacc 180
 tacatcaact ctagctccta ttaatccgac taccagacac atccttaata cacaaaaata 240

gcacgaagca tcttcagaca tgtata

266

<210> 13687

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C4

<400> 13687

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atcgctccg cctcgcgctg ctgctctacg cgtgcctctg ctccgctgg gcgcgcccac 120
gcctagagcc gaccatccgc ctgccgtccg agcgcgcggc ggccgacgaa acggacgacg 180
actccgtcgg gacccggtgg gccgtgctca tcgacagctc caacggctac tacaactacc 240
gacaccaggc agacatgtga catgcataca agaccatgaa taacggcgga cgtaaggact 300
agatcacaga atggaactat tacaactaca tgctaccaa gagggacaaa tgctaggtgg 360
aaacc 365

<210> 13688

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C5

<400> 13688

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caccggcacc gacgagttga gccccgacgt ggccatccct tctcagaaca caaagaagag 120
tataatagaa gaagaagaag aagttgttcc tccaactgag aatcctcccg tggagaataa 180
cttttacttt gacatctgtg gtgaaaaagt tgctattcct acgacacatg gattgagagt 240
catggcgggc accacaccag ggtacaccta catcagcgct tggccattgg aaaccgccc 300
ggagacatca cgggggtaca cggaatcgt tcgaggcatc tcgaggcgtg tatgaggacc 360
attggatata aaattgctca ccggagttct 390

<210> 13689

<211> 420

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-C6

 <400> 13689

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 aggggagccg agcgcagAAC cctaattacc tccatcgatt gctaacagct cagatctcag 120
 aggcagggga ggtaaaatgc caagagcaaa tgaaatgttc agggcagatt ctagaatgat 180
 ggtggttttt ggtgccttga catcgaaacc agagcagctg acattcgaag aaaccctcag 240
 atttgtcaag aaagtgaagg cccgcgatta catgctatac ctgtcattgt tcgacattct 300
 tggcagaatg gaactatccc agctcgatgc ctaccgagag ttacagctgc tgtttggaaa 360
 ccaccgggat ctgtgcgaag agctcgagaa gttcaggcca ccggtgccta caaagcaggc 420

<210> 13690
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-C8

 <400> 13690

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 atcgcagttg gcgtggccag ggggctgtct tacttgacag agaagtgccg ggagtgcac 120
 atacactgcg acatcaagcc agagaacatc ctcccttgatg aggagatggg cgccaaggctc 180
 gcggacttcg gcatggccaa gcttgtcggc cagcacttca gccgcgttct gaccaccatg 240
 cggggaacga tgggctatct ggcgccagag tggctcgcgg gcgcgccggt caccgtcaag 300
 gccgacgtgt acagcttcgg cctgctcctg ttcgagctca tctcgggacg ccggaacaac 360
 ggctcctcgg aggcagggtc caactccgct gtgtacttac cggtgcacgc cgccgtc 417

<210> 13691
 <211> 92
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-C9

 <400> 13691

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aggctctatg gtgagatcac cataattgga tt 92

<210> 13692
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D1

<400> 13692

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aattgatgac tgaaagggaa ttaggcttac acctagttcc taattaattt tgggtggtga 120
attgcccac acaaacaatt ggactaacta agtttgccca agtttataga ttacacaggt 180
gtaaaagggt cacactcagc caataaaaag accaagtttt ggattcaaca aaggagcata 240
gtgggaaccg aaggccctct agtctgagag caccggactg tccggtgtac accggacagt 300
gtccggtgca ccagaggact ccagctccaa ctcgccacct tcgggaattt ccagaggcga 360
ctccgtata attcaccgga ctgtccggtg tacaccggac agtgtccggt gcg 413

<210> 13693
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D11

<400> 13693

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tattctcgag gagtgcgga tcaggatggg aggggggacc tcgagtgtgg cggcgaagat 120
ggccttcttc ccgccgacgc cgccgtcgta ctcgctgggtg gaggacgccg gtgctggggg 180
caccactctc agcgtccagc cgcaccggga gaacgtcgag ttgctgcgct ttgcaccca 240
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ctattccac ggcaacgtcc tggacctggg ccacctctac cagctcttcc tgcacttagt 360
cttcaacctc caggtaaca tcctcgggta tgactattca ggaaatgggc aatcatcaag 420
aaaggtatga tcaaactt 438

<210> 13694
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D12

<400> 13694

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cggatcaaca tggggggggg taccttaagt atatcggcgt cgattacctt cttcactccg 120
actccaacct cgtacgctct aatgcatgac acatcacctc cattgaaaaa actcagcaca 180
taacaggacc tcaagaactt agtactgctc ctcttcatca cccactttgg taacactcat 240
gctaaaatat acgctcgcca cacactctc 269

<210> 13695
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D2

<400> 13695

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catggatgac taggagcacg atgtgttcag acataagatt taagttgacg gcgaggacgt 120
attcatggat gccgacgact atgctaccta actgcacgaa cttgtctata tgaaacacct 180
gctcaaggat atggatgagg aggtcgacag actacgtgag atgcacgcca aggggtgccta 240
ggagatacca ggtgtacatt agtatgcaag cacatgtgtg tacagtgtag agatggaatc 300
tgggccagca tcattggaaa tgttgtctat gcgtgcactt tagaagatat gcagaag 357

<210> 13696
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D3

<400> 13696

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ccattgatga ctaggagcac gaggtgttca gccataagat ttccgttgac tgcgaggacg 120
tattcatgga tgccggcgac tatgccacct aactgcagga acttgtctat atgaaacacc 180
tgctcaagga aatggatgag gaggtatacg gactccgttt gatgcacgcc aagggtgcct 240
aggggataca aggtgtacat tcaaatgcaa gcacatgtac tttcacatgt acaatggaca 300
gtgggccatg atccattgga aatgtggtct atgcctgcac tt 342

<210> 13697
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-053-Q1-K1-D4

<400> 13697

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ccgcgcctcc gcctacgccg atgagctcgt gaagaccgcg aaaacgatcg cgtcgccggg 180
gcggggcatc ctggcgatgg acgagtcgaa cgcgacgtgc gggaagcggc tggcgtccat 240
cgggctggag aacacggagg ccaaccggca ggcgtaccgc acgctgctgg tcacggcgcc 300
gggectgggc cagtacatct ccggcgccat cctcttcgag gagacgctgt accagtccgn 360
cgtcgacggc cgcaagatcg tggacatcct ggcgagcag ggcacgtgc cggggatc 418

<210> 13698
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D5

<400> 13698

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ctccccacca cgctccccac cgcaaagccc ctcccgcat tccgaacca cgctgtagcc 120
gcatcgaaac ttccccaaaca gcgcctcgc cgctgcacca tacgcgcggc catcaccgt 180
ggccgcaagg aggagacggt gaccaccgtc cgggagcagc tggagggtg ctacctcctg 240

gctggtatca agtacgaggg cctgacggtg aagcagctgc aggggaatccg cgacgcgctc 300
ccagagacct gcagactgct ggtggcgaag aacactctgg tggggaaagc catcgagggc 360
accccttggg aagcgctcaa gccgtgcatg aagggtatga atgcctggct cttcgt 416

<210> 13699
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C12

<400> 13699

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ataatctaaa agacaactgt gtctacaata ctatgacccc ttctggacga atctaacagg 180
atgagatcaa cctattgaca gcattcacia tcattaccaa gtctgcatgg atcttcacca 240
gtaagcttgt gacttcattt gaagaccatt cgctctggca taattattgc tgcaccaccg 300
atagttacat catgagcgat cagtatctca gtatctagta ctg 343

<210> 13700
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B1

<400> 13700

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cgctcccgcg cgcgcgctg atcaactccc gcgcgtgcac cccccgccgg cttgtccacg 180
tgtcggcggc gcgcgcctct cccccgcgcg gaggagggcg cgtcgggtcg cgctccccga 240
cggccccgcg tgtagcggga gcctcctcct ccggcttggc tccggacaca agcgtgccgg 300
cgtgggacgc tctcggcggc gtctccgtcc tcgcgcggg gacaggcaac gctgtggcgc 360
tgacggacct gtgggactcc gccgaggggg tggccgtggg tgcgctgctg 410

<210> 13701

<211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-B10

 <400> 13701

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 ctgaccctgc cgtggaaggt gcggctcctg ctctctctgcc tcgatgtcgt tgccgggtctc 180
 tcgatgcgtc gcgacggcac catcaaccgc tccatcttca acctcttcga ccttcgtgcc 240
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 gacacgtcga gcggtctgtg ggcgcgcggtg ttctggccgt cgccggaggc gtccgcggcc 360
 ccgctccctg tcgtggtcta cttccacggc ggcgcccttca cgctgctctc t 411

<210> 13702
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-B11

 <400> 13702

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 gccgcccaga tcgccgtagg caagcggcga tcaactccagc tttgagcata agtttctgca 120
 cggaggctcg tgaagtcagt agtcgtatct ggcagtggca gcacagcgca ccatggaatg 180
 gctgagctgg agaacggtgt gttgtttatc agtgctgtgc accgtgctgt tcttgcgccc 240
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 tgagggggat actgtccatg tatccttcgt cgtcatcaag gctgacaccc cgtggcatta 360
 cagcgaagaa ggcgttgatc ctgtggttaa ggatcctaata ggcgc 405

<210> 13703
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-B12

<400> 13703

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gggtgctttc gtgatcggg tgctgcccgt cgcattcagc atcagcgccg accgcgagta 180

ccgtgaccgg atgcctgaac ctggccgatt attgcctagc cgatactgga gcctacagat 240

tgcgaacac gaaaagcagc aggcgcgcga aaactcctca tgaggagcag gtctacgagc 300

cggaaaagga cgaggggtgg ctttgccggc tgacagagca gtttccttaa tatgtgtctt 360

ctatcatttc atcattctct gtggctgtat gacaacgaaa agggcgtttt tt 412

<210> 13704

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B2

<400> 13704

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tgcatttagt gaacatctgg ttggtgaaaa gaggccctta tatgactcaa gcggtcgata 120

tgtgtaccaa attagccatt catctctaca tgttctagct aagggcacaa tcaatgagga 180

aaattttcaa gatgcagaat caactaatca gctggattct gatgctgctg tgccacatca 240

tattagttgg gatgctccta agcctactct gccaaactgat tgtgaacacg atcctgtcgt 300

accatgttcc gtctgctctg tggatgcgtc ttacacggaa actattatcc cgagcacaca 360

gattagagac attgctagta gtacagagag 390

<210> 13705

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B3

<400> 13705

gtagaccaca gtcttaccta gactgatcta cgtgtttcac caactatatc caacaagggg 60

gaggctccat cctacttcag ggtggtcata cgaattcgtt atattcacac aacagaatat 120

gacaccagtt gaccaagata actctaagaa gatgctaattg cccactctaa tctgatgagt 180
 ctgagaggga gatcattcat catcagcaag atgatgatgc accagtgcac tacagatgat 240
 tcgtggtcga tcttaagtgc tcactgtgat ataggcctgc aactaatct ctatcacaat 300
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<210> 13706

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B4

<400> 13706

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 atattgccga gcagctcaag atcaagttct ttggactcct cggacgcata accacctgtg 180
 ctgcgcctg cgccaccac aaggatgccg ctggtgcgac agatgccaag tcatcagagg 240
 gatcccagcc tgttgagatc aggtcaaggg gaggtgctcc taccgctgct ggaggggcca 300
 agggtcacat caacagtgc accatctaga ggataggag aggagaagag aagagatcga 360
 atacaataga agaagctcac ccatagttac cacgtttgaa agaactgacg ctgtaaata 420
 cagttactcg ttgcttgagc gtgtgt 446

<210> 13707

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B5

<400> 13707

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 caggggagca ggacctgat cagcaggagg caggggagca gcatccaca ccacaagcca 120
 tggcggggag ggccaacatc cccactaaca actccgacct catcgcaatc atcgtcgacg 180
 aggacaccgt cactggcttc ttgatggccg gcgttgcaa tgttgatctg cgcaagaaaa 240
 ccaactacct cctcgacgac aacaagacga cagttaaaca aatcgaggat gcgctcaaag 300

aatttactac gaaggaagat attgctattg tgctcatcag gcaatatatt gtcaacatga 360
taaggtttct ggtggatagc tacgacaagc cegtacctgc tattct 406

<210> 13708
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B6

<400> 13708

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gccgctggtg cgacagatgc caaatcatca gtgggatccc agcctgtcga gatcagggtca 240
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tagaggatag ggagaggaga agagaagaga tcgaatagaa gagaataagc tcaccgatag 360
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<210> 13709
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-B8

<400> 13709

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gcaccttgtc aaatgatgaa ctctcagaag ctgcagctgc ccgttcagga tctgatgagt 180
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tcgtcgtcgc cttcacctgc tctgatgct agaggcctgc aagttgctgc ccatcccagt 300
cccagcaaga ggcggcgtcc tcgtggcctc gttgccgcgg acggcagtga cgacgacgaa 360
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<210> 13710

<211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-B9

<400> 13710

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 cggcgcgccct ctactgccgc gcggacgcgg cgttcctgtg cgccgggtgc gatgcgcggg 180
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 cggcgggcgg cagctgccgc gcggacgctg ccgcgctctg cgctactgc gacgccgaca 300
 tccactcggc gaacccgatc gcgcgccgnc acgagcgctt ncacgtggca cccttcttcg 360
 gcgcgctggc cgacgcgccc aagccct 387

<210> 13711
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C1

<400> 13711

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 taaaccctag ccggtggtgt agctgggttg gtggctttga tgccggcgac tgcccgtttg 180
 taccgccaat ggagtgggtg gacgaatgct gtcattgggt ctaactatgc cagcattgga 240
 ttataggata gtagctggca gctaccagtt tctagaacc aatttgtgga tagcgagagg 300
 cgtgactg 308

<210> 13712
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C10

<400> 13712

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ttgccatgat tgatgaaatc gctgatgggt ctcttgcttc tgtggatggt ttgcaacttg 180
gagatgagat tgtaaagttt gggaatgtgg aagctgggtga tcagttgcag gaaaggctca 240
tgtctgaagc tctttccaat gaggacagtc aagtatcttt agtcatcatt cgccagggat 300
cagtggtgaa tttaacaatt acaccaagga agtggcatgg aagaggactt ctgggggtgcc 360
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<210> 13713

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-C11

<400> 13713

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ggagttctga gctaattgaa gtcagtgtct ccaagtttat gaccccttca gcattcattt 180
ttctgtatga gaacaacctc ttcttgacat tccgaaacag aacagtcgct gtatgggact 240
tcagaggaga gcttgtgact tcatttgaag accatttgct ctggcataat gattgtagca 300
ccaacaatat ttacatcacg agtgaccagg atctcattat ctcgactgc aaatccgagg 360
cagtggctga ggatggtaca gttgttccag ttggatccat caacataagt gag 413

<210> 13714

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A8

<400> 13714

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gccgacggca tcatcgagga gtccttctgg ccgggcaagt acgccgtcga gctcagctcc 180

gtggcgtagc gcgcgacgtg gcagttcgac acggaggcgc tgcccaacga cctcatcaag 240
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 tacgcccacg actgtctect ggtctgggac tccatcaggc agtgggcggt cgagtagctc 360
 aacgtctact acaagtacga cgaggccgtg gccgtcgacc ccgagctgag ggcg 414

<210> 13715
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-H1

<400> 13715

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 ccgcggtggt gttctctgtc gtcttcagcg ccggtcgagc atcgccgctt gggaatggcg 180
 cacggccatc ccgtctcgac ctctccagc tctccatcc cttggctcctt ggcgctcgcc 240
 aagggcctct cttcatctt ttgtcgcgtc tcaactccca tggcgcctc tacgcacgag 300
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<210> 13716
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-H10

<400> 13716

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 gtggtggagg tgccggcgga gctggtggcg gggggcagcc ggacgccgtc gccaagacg 180
 aaggcgtcgc agctcgtggg gcgcttctg gccgcgtccg agccggccgt gtccgtgcag 240
 ctgggcgacc acggccacct cgcctactcc cacaccaacc aggcgctcct ccgncccagg 300

tcgttcgctg ccaaggacga ggtgttctgc ctgttcgaag ggtgctgga caacctgggt 360
cggtgaacc agcagcacgg gct 383

<210> 13717
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-H11

<400> 13717

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taggaattgt tttgggtgac atcatttttc ttctttgaac ttttcaaggt tattgcttgt 180
atagatagca aacgatgaca tgtacgtttt ctttcctttt tcagattttc ttttgtgaca 240
ttattaacta ttatgtacta atgccggatg ttgaattaga attagaattt tatttgtact 300
tatgttctca agcttacctg ccaggctcttg attctgacac cattcatggt tctgaacatg 360
ttgacatctc ttactgtaac atttgatacg catgctttt 399

<210> 13718
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-H12

<400> 13718

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aagagacgta tgttatatat atatgagttg catgcagtca ccgaactggg acagggttcc 180
gatttacatt tactgatgag agtctcgtag tgtaatcctg gggagagtat ttgttgcac 240
aatcatgact gccgattggt atctcggttt accagcatgg aagcattatc tgatttgggc 300
atacaagtat aaacgcaact agcgatcttg gaaaaagaga aaccgaatt 349

<210> 13719
<211> 384

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 13719

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 ccgccgtggt gtctctgttc gtcttcagcg ccggtcgagc atcgccgctt gggaatggcg 180
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 aagggcctct cttcatctt ttgtcgcgtc tcaactccca tggccgcctc tacgcacgag 300
 ctcgccggac gccgcagcat atgctccctg ctcggcctnc ccggcgtgct gctccctoga 360
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<210> 13720
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-H3
 <400> 13720

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 tcaccatcaa ggactacccc tacgcccacg acgggctcct ggtctgggac tccatcaagc 180
 agtgggcgtc cgagtacgtc aacgtctact acaagtacga cgaggccgtg gccgccgacc 240
 ccgagctgag ggcgttctgg gacgaggtgc gcaacgtggg gcacggcgac tagaaggacg 300
 agccgtggtg gcccgctgtg gacaccccg acagcctgtt ggagacgctg accaccatca 360
 tgtgggtcac ctgcgggcac cactcggccg tcaacttctg gcagtaccac 410

<210> 13721
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-053-Q1-K1-A11

<400> 13721

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atacctcgcc cggagacggg cctgagaagc ttcgcagtgc caccaccgcc cgtccactcg 180

catcaacaaa gactcggacg gggcagctac atgcggcgca gtccatgcct ctacc 235

<210> 13722

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A12

<400> 13722

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tgatcttcgc tggcaagcag ctggaggatg gccgcaccct agcagactac aacatccaga 120

aggagagcac tctccacctg gtgtccgcc tccgcgggtg tcagtaagcc atgggtcatt 180

taaactgctg ctgtacctgg gtatctgcgt cgtctgatgc cctctggtgt acctctatat 240

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<210> 13723

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-053-Q1-K1-A2

<400> 13723

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accttcatcg ttgtccagt tgttcgtccc attccctcca tggacgcgat gtgactagag 180

gacggcgcca ccgtacaact ttgtttcgat tcgtcggcgc cacagcttcc tccatgcttg 240

taatgtagtg cacctgctga agaaggggaa aaacgagaga gagagagaaa agggaaaaaa 300

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cggctgttcc gcttgttctc ttcttccgct tct 393

<210> 13724
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-A4
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<210> 13725
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-A5
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gctctacagg ctccacgccg tcacggtgtt cctggggata tgcctggtgc tctgctacag  180
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ggcggagctc tggttcggct tctactgggt catcacgcag tccgtgcgct ggtgccccat  300
ccgtcgtcgc acctccacg acaggctcgc cgtcaggttc ggagagcggc tcccatgcgt  360
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<210> 13726
 <211> 381

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-G9

 <400> 13726

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 gcaagaagcg cctcatcgag a 381

<210> 13727
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-053-Q1-K1-A6

 <400> 13727

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 gctctacagg ctccacgccg tcacggtgtt cctggggata tgcctggtgc tctgctacaa 180
 ggcagacgca cgtccctgct gtcggatacg gcggcagggc ggcgtggctg atgatgctcg 240
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<210> 13728
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-A7

 <400> 13728

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gacttttcggg tctgatgctg cagcttatgc taaggaagtc gaagaacaca taacttatgg 120
aagttcagga aggggttcag gcttcattgc agaaacattc caaggtgtgg gaggtgctgt 180
tgaactagct cctggatacc taaagttage ttatgacatt gtgcgcaagg ctggtggcgt 240
ttgtattgct gatgaagtcc atagtggttt tggccgtact ggcagtcatt actggngatt 300
ccagacacaa ggtgtcattc ctgacatagt caccatgg 338

<210> 13729

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-F4

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caccaccgc ctccatgcc cgcacccga gtccgaacc tgtgtgtcc cttctctccg 180
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acgaccacgc cacctggcgg caccaccga gctcccgcg ncacctgcgc cacctnctca 300
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<210> 13730

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F5

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ccgcccgtcg tcgcaactcg cctgcagggc gttcggcgtc gacgccggcg ccgccaggat 180
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<210> 13731
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-F7

<400> 13731

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<210> 13732
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-F8

<400> 13732

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 ggcggctcaa tgtcgactac ttcagcgtac ccaaccctgt gactgccctt ctctccagga 180
 cgtccgactg ggacgacacc attcatgagc acctcgtccg tgatcgtcgt ccgctataac 240
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<210> 13733
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F9

<400> 13733

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ccaccctgtt aacctgatcc ctgcgctacc tagataacct aagacgcgac 170

<210> 13734

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G1

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cgatggcgta caagatggcg acggagggga tgaacgtgaa ggaggagtgc cagcgctgg 180
tcatggagat gaagtgaag aagggtgcacc gcttcgtgg 240
cgcgcgccgt gctggtggac aagggtggcg gccccgggga agggtagcag gagctcgtgg 300
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<210> 13735

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G11

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tgatcgacat gagcgtccgg aagcagatcg aggagatcgc gtccgagttc gagttgcccc 180
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ctgcggatca acggcgggtgg ctccaaatct ccaatactac tacatatgaa cggacactat 360
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<210> 13736

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G12

<400> 13736

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 gctttccatt tctgttggg agtctttag tgtaatcctg ggggtgtgat ttgtctcatc 240
 aatcatgcct gccgattggg atctcgtttc accagcatgg catcattatc tgattagggg 300
 atacaagtat aaacgcacgc agcgatcttg taaaaagaga aaccgagttg cagaggggta 360
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<210> 13737

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G2

<400> 13737

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 taatgggact gaacatgtcc tggactgcaa tcaactgcagc tcttgttctt ctggcactcg 180
 attttacgga cgcacaagct tgtcttgaga aggtgtcata ttcactgctg atctttttct 240
 gcgggatgtt tatcactgtt gatggcttca acaaaacggg cataccgaac aactatggg 300
 agttagtgga accatatcca cgaatcgata gtgcgaaagg tggtgcactt cttgccgtgg 360
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 gagtggctgc a 431

<210> 13738
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-G3

<400> 13738

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 ctatcacccct cgaggtggag tcttctgaca ccattgacaa tgtcaaggct aagatccagg 180
 acaaggaggg catnctcct gaccagcagc ggcttatctt cgccggcaag cagcttgagg 240
 acggccgcac acttgctgac tacaacatcc agaaggagtc aacccttcac ttggtgctgc 300
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 aggtggagtc ttcagacacc att 383

<210> 13739
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G4

<400> 13739

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 tgtacttggt atagaatttc tgtagagcag cttgtttgtg tagtctaata tttataata 180
 atcatactag cagt 194

<210> 13740
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G5

<400> 13740

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aggacgtgga cttgtttatg ggactaagga agggaagctc aggatccttc aacacaatgg 180
cgcagacatg ataaacatgg ggtcgggttg cttcattgac gaaaatatgg ctgagatcca 240
gaggtatgca ttggaatgct gaataagctt gaccacatca tgtgaatttt aggcttactt 300
ccatgaaaga cttctgtgca ggcttcatct gtgtgatccg ttcaaggga aacattagat 360
gcatctgcaa ctacattaga acagataatt ctcaatgggc t 401

<210> 13741

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-G6

<400> 13741

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agcgtgtgga agaccaaggt tctgcctggc ctcaacaaga tctttgacaa ggatggcaag 180
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gaggacaaga agacagagct ggagcccaag gtcgtggagg cctacgaagc atctcctcct 300
gaggtcaagg ctctgttcaa ggataagaag ccagtcaagg tcagcaagaa gaactcggct 360
gcagtcacca agttcctcga tgagctggct aagattgact tcctggagc caangtgggtg 420
agc 423

<210> 13742

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G7

<400> 13742

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aggatgtgga ctacgcatat gggactaagg actgaaagcg aatgatactt gaacacaatg 180
gagcgtacat gataaacatg gcgtgaaggt tgatacattg aaggaaatat ggttgagaac 240
cagaggcatg cataggaatg ctgaacaagc tggaccacat gatctacaat agcaggotta 300
cttacatgaa agacttgtat gcaggctaca agtgtgtgat cgtacaagg aaaaacatta 360
gagccatctc caagtacctt agagcacata attc 394

<210> 13743
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G8

<400> 13743

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ccgccgtctc ccgccggtcg ccgtctcccc cctcgttct gcgccctga cacctcccca 120
gctctcaccg gcgccgtcga gagcccaggc cagtctcagt ctgacgacgc cccgccacca 180
cgctcgggtg aggcgcctc gtccctggcg ccgcgcgcga gctcgcatct cgaccgatgg 240
tcccggtcgc gggcgctcgc gtcgggccac cggccggcgc tgaaccgcgc ggctctctcc 300
tcggcctcgg tctcggcgcc gccggtgatc aagtcgccgc ggcccaggga cgctgccgtg 360
gcggcggaag atggcgagga cgacgacgtg tgcc 394

<210> 13744
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F3

<400> 13744

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gcgaggacgc ctgccagggc gctctcggca gtctttgatt ccacgcatga agagccccgc 120
gcggtgcgcg ccgcacggat atggcggcag cctcatggct gaacggcgct caggcgatcc 180
gaacatcata gaagacagaa gcgacacata acaaccggac agggccacaa ggaggtctct 240
atctgggata accacccaaa ttacaactca agatgcaaac attattgatc aatacggatc 300

acctggtctg ctaaattgtt ttatggaaag aaagcaacgg ccaagttctt ggagatggat 360
gccaatgc 368

<210> 13745
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D9

<400> 13745

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catgcacgct tctactaat ccgcctcgcc ttcctctgcc agccgagaac gccccgaaga 180
gtcacggccc acacgccagc cgctaaagac ctgccgtaca ccgacgccgc cgacactact 240
gggacgtcca ctcgaaacgc ggagactaac cccaagtaca acaactacca caacgcgacc 300
ctcacgacgt aaatgctgca tcaccagctg accggcccga tcgacaacga gatgaccatc 360
a 361

<210> 13746
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E1

<400> 13746

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tctgtgctta gtttacatcg accgcttaca gcaggcagcc attgacattg attgatgagc 120
acacatcgat catgagcata cgccggctgg tgcaactact acacgcctac gatctgaaca 180
agtagagtac agagaagacc aactgttca ctgcacggac ggacgaacga atggatggat 240
ctgatggtag tacacatgta cggcgttgct cagtcagtta gttgccgggg acgaagtctc 300
tggcgtatgc ccaggcgttg ttggcgacgg ggtcggcgac gtggtcgaag aggttctcga 360
tggggccc 368

<210> 13747

<211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-E11

 <400> 13747

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 tgtcgtatac tgcctcatca gctggagtgt cggctctccc aagcgagcgc ctatcaatgg 120
 cacgctcctc aagcttctct ttccagtcgc cctgtgccat ggtattggtc acatcactag 180
 caatgtgtcc ttcgctgctg ttgcagtctc atttgtcac actatcaaag ctctggagcc 240
 cttcttcagc gcagcggcta ctcagtttat ccttggacag caagttccct tctctctgtg 300
 gctttctctt gccctgtgg tcattgggtg ttcaatggca tcccttactg agctttcatt 360
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<210> 13748
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-E12

 <400> 13748

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 ggaggaggca gcgagaagcg tcgccgccgc cgtccgctag cagcagctgc gtcacggatg 120
 cgtcgagctc ggacctggac gaggtcagca gctagcttag ctagctagct agcagaaccg 180
 accgtacgtg ccggctggcc acaacatgca gtcaagaacg tacgtacgta tatgtatacc 240
 gccaccagct cgtcgcgcgc gcagctgtgc tgtgcatgcc gtacgtgtgc ggtcggcctc 300
 gacctcgatc tcgaagagag gatgtgatca agctgagtta cggataacgg ggaacaaccc 360
 attcacacgc acttttactc cgagccaaca ttatttgggtg gtaactagnt tttcttttct 420
 tt 422

<210> 13749
 <211> 206
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E4

<400> 13749

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cgaccgctta cagcagccag ccatatacat tgattgatga gcacacatcg atcatgaaca 120
tactccgggt gctgcaacta ctacacgcct acgatctata acaagctaag tacataaaaag 180
accactctga ccactccacg tacaga 206

<210> 13750

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E5

<400> 13750

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cagccatggc gacctccgcg gcgctctcca ccgcgcgcaa tcccaccag ctctaccggt 120
cccgcgcttt gctgggcaag ccggtgaagg ggcttggcct gagcatgggc cgcgagcgcg 180
cccagcggag cattgtgtgc caggcggcga gcagcatctc cgccgaccgc gtccccgaca 240
tggagaagcg gaagctgatg aacctcctcc tccctgggcg catctcgttg cccaccgtcg 300
gcatggtcgt cccctacggc gccttcttcg tccctgccgg ctccgggaac gccggcgggcg 360
ggacctacgc gaaggacaag ctgggcaacg acatcacggt ggaggcgtgg ctcaacacgc 420
acggtcccaa 430

<210> 13751

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-E6

<400> 13751

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gcttttgctgg gcaagccggt gaaggggctt gcctgagcat gggccgcgag cgcgcccagc 180
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gcggagctga tgaacctctc tcctcgggcg catctcggtt cccaccgcgg catggtacgc 300
ccctcgggcg cttcttcgcc ctgccggctc cggaacgccg gcggcgggac ctacgcgaag 360
gacaagctgg gcaacgacat cacggtggaa gcgtgggtca acacgcacgg tcccaacgac 420
cgtacgc 427

<210> 13752
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E9

<400> 13752
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ggagatgacg acgcaccagg ggccgccagc tgccacctat tctccggcca gggatggcgg 180
cggcggcgcc ggaagaacct ccaaggagaa gaaaaagccg cggggatcga caaccggctt 240
tccaatcagg gcgacccgga acgccaaggg ggggtactcc gccttcacca acgtaccggc 300
catggccggg gccg 314

<210> 13753
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F11

<400> 13753
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cgccgtcttc tcgcagacgg agatgactga tgttcatggc cgtacatttg gtgtctggac 180
tcttttgacc tgcaccctgt gcttcctttg cgcactgaac ctggaaaata ggcctttgta 240
cctggccacc ttctatcat tcatctacgc tcttggtcat ttctcacgg aatacttgat 300

ataccacacc atgcctgcag caaatctgag cacagttggc ttctttgcag gaacgtcgat 360
aatatggatg cttctgcagt ggaattctca tgggaacccc cggggttcct atgctgggaa 420
gcagtcatga ctgatg 436

<210> 13754
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-052-Q1-K1-F12
<400> 13754

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tgagtgagtg atcgagctag ctgagctccg atcctcgcta gctaggatac cgccatacca 120
caagtcttct tcacaagttt aggagtgaca gcaacaagag atcgatggcc tctgccaccg 180
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cgcccaggcc gtccaccgtc tccatggctcg tccgcgcctc cgccctacgcc gatgagctcg 300
tgaagaccgc gaaaacgatc gcgtcgccgg ggcggggcat cctggcgatg gacgagtcga 360
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<210> 13755
<211> 421
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-052-Q1-K1-F2
<400> 13755

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ggtgcgcgcg gcgcggattt ggccggcgcc tcatggcatg aacggggctc aggcgatccg 180
aacatcatag aagaaagaag cgacacataa caaccggaca gggccacaag gaggtctctc 240
tctgggataa ccacccaaat tacaactcaa gaagcaaaca ttattgatca atacggatca 300
cctcgtctgc tagatgtttt tatggaaaga aagcaacggc caagttcttg gagatggatg 360
ccaatgcttc cggttntgct gtcggagcga atcatgagga aggaaggaaa cgcgatggatt 420

<210> 13756
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-D8

 <400> 13756

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gtctctcaag tcgtcgctcgt cgtcgggcggc ggccttcctt ggccactcta gccgcctcgg  180
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caaggtcggg ctgatcaac                                     439
  
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<210> 13757
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C2

 <400> 13757

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gagctgctcc gcgagggcca cgacgtgacg gtcattggagc agagcggcgg cgtcggcggg  180
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gag                                              363
  
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<210> 13758
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C3

 <400> 13758

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 cagggggccaa aaccaagttg gccagaaaag aaagctttta accttggtgc ctaccgaata 180
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<210> 13759
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C4

 <400> 13759

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<210> 13760
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C5

<400> 13760

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cgccacccga cccgtacggc cacgcgcacg tcgacccgga tccgtacggg cgaccttcgg 180

cccagtcgcg gtacgggtggg gccggggacg cctacggcca cagcggccaa ggctacgcgc 240

cccggtcggc ctacggcgcc gactacgggt acggcaacgt cgtccacgtc gcgcacgagg 300

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<210> 13761

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C6

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tgcagctgca gcggcgccaa gaagcacagc tgctctctgc gtcaggggcg gcagcagagg 180

aggcgccctc gcgtcgccc cgccgtcgag gtggacgcgc cttccgccgg cgacaccggag 240

cctgaggagg ccgaggagcc gtccgtcgac ttcgctttcg tcagcccgcg gctgctgccg 300

gacgggacgc cggacgtgca ctaccggacg gcgcggggcg ggcagaagct cacggacatc 360

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aggggcgggc tg 432

<210> 13762

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C9

<400> 13762

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<210> 13763
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-D1
 <400> 13763

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<210> 13764
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-052-Q1-K1-D10
 <400> 13764

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gaggaggcag atcgagcgga gcctcccgga gtggcaggac cagttcctgc gctacaagga 240
gctgaagcgg tgcgtcaagg cccgctccgg cggtgcccg ccgttgcccg cggaggaggc 300
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<210> 13765

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-D12

<400> 13765

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cacagccacc aaattcacca caccatagct agaacattct agggagttgc tggcccgtat 180
gaagcttggt ccgtaatcat ctcaaacgc gaagaagaag tggaagtcac tgaagagaag 240
acaccaccac cctcggattc tcgggcagga aactgcttct actttgatat ttgtggatcc 300
gagcctgact cacctactaa caaagggtgaa gaagcgacaa atttttgttg cttttgctcc 360
aaggtggtat caaatgaaga aaaacaagag tgaagatgcn ggaggacgtg gtcctccata 420
taagatcttt ttggttttaa 439

<210> 13766

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D3

<400> 13766

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gacgcccagg ggagagggct ggaagaagct gcgccgaaa ggcaggatgg ccgacggcgc 120
cgacgcccc ggacgcgca ggagccccac tgtgtacgac tgggtggtga tcagttcgct 180
ggaccgctga agcagccggc cgggccaaga cgaggacaca gcacaaggat ggaggaagcc 240
agccaccatc agcagcagct agcggactga aggaggatcg gaacagagag gcccccccg 300
ccatgcgacc tgcttaacag agcttcttgt cacggttctg ttatactacg cgtaaacggt 360

gtatgtatat acgtcatctt cct

383

<210> 13767

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D4

<400> 13767

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atcgggaaca cgccgctggt gtacctcaac aagggtgaccg atgggtgctg cggccgcgctc 180
gccgccaagc tcgagtccat ggagccctgc tccagcgtca aggataggat tggctacagc 240
atgatcactg acgcagagga gaaagggctg attactccag gcgtgagtgt tctgattgaa 300
ccaactagcg gcaacacagg cattggactg gcctttatgg ctgctgcaa gggctacaaa 360
cttacctca caatgcctgc ctgcatgagc atggagagga ggatcatatt tgaggctttt 420
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<210> 13768

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D6

<400> 13768

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ttctccttga gaccttgctt acccgagtgc tctcggtagag ctactttgtt tcgatctatc 120
aggaaatccg tttgcttcat gttgtgcagg ctcatatctg attgctggat tcggcaaacc 180
cgcgttggat cctgtatcgg ttagtccttg cctgcaaggc tcttgctggt ttgttttggc 240
ggtcgagcat cgcattgtct gcttctggat ccagatctgg agaaatcgcy aagtcgtcgt 300
cgttcgggtc ggagcggatc tgaagcgacg atagatggag gcggcgggat ctctcgggtc 360
gcagtcctgc tccacctcga tggatgatgt ctctgcgctg ataattattg gatcaatgtc 420
gataattatt agtagatcta 440

<210> 13769
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D7

<400> 13769

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acacacaaga tgcttcatcc tagctgggtc ggtgtctcgg cacacgtctc ggagtattgg   180
tctgtgataa tcgccactgt tgttttcgca tttgggtggcg cggtgacaat ttactataca   240
gtcaatcagt tgaacaagaa catcagcttg agcctgataa gggctatcaa ggccagggcc   300
aagaggtaca agaaatcgaa ggacaagggtg cccgctgcat cccacatctg gaggaaagaa   360
gttgtctccc gcaacaaagg cctgaaatgc                                     390
  
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<210> 13770
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C12

<400> 13770

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tcatgacccg tctcacgtac acgctggacg agatcgaggg cccgctcgag gtcgggtccg   180
acggcacgct caagttcgag gagaaggacg gcatcgacta cgccgccgtc accgtgcagc   240
tcccggcggg cgagcgcgtg ccgttcctct tcaccgtcaa gcagctcgtc gccaccggca   300
agcccagagag cttcggcggg cccttactcg tgcccagcta cc                                     342
  
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<210> 13771
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A3

<400> 13771

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agtttaataa ccgaccataa gcaaccattg ggggccctg gataaactga tactttgtat 120
tgtatttaca acaaaataat acgcttgata agcatctatg taattttact cggtaaactct 180
ggcttgatgt gctgtttggc atctgtcgag cttaacatta tttttaatcc aaaggatgcc 240
aaacgtgtgg tgaatgaacg gtaaaaacta tcagatagtt gaggcgggaa ttt 293

<210> 13772

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A6

<400> 13772

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aagtactcac tcagtcctaa aataaaatta gttttatctt ttagttgatt tatacataat 180
taatgtatgt gttttacgta catgtctaga tttattatcg tctatttgaa catagaaata 240
aaaatcgaaa gctaaaacga ctaatatgtt gggataatat tttgggacgg gtgaagtatc 300
aaatatttac tgcaagattt gagtttggga ggaggcgctg atgagaaacc gtccaaagtg 360
gaatagattt tactataatc tgacagtcaa cttaatcat ttcttcgagg gcatctgcac 420
gtagaaaatt gatgtta 437

<210> 13773

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A8

<400> 13773

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agggacagta gcgtggggcc ggggagcaac gatggagggg aaggaggagg acgtgcgcct 120
gggcgccaac aagttctcgg agcgtcagcc catcggcacg gcggcgagg gcgcggcgcc 180

cggggacgac gacaaggact acaaggagcc cccgccggcg ccgctgttcg agcccgggga 240
gctcaagtcc tggtccttct accgcgcggg catcgccgag ttcgtcgcca ccttcctctt 300
cctctacatc accgtcctca ccgtcatggg cgtctccaag tccaccttca agtgcgccac 360
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<210> 13774

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-A9

<400> 13774

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gcccattggag aaggcggggc aacaacgcca tgttatcggc ggccggcgga agaaggcgcc 180
cgcgctgggg ctgcagaagc agaactcgtg gtcgccggac atcgagcgcg acgaggcgtg 240
ggagcgccgg cgcaggggca tgcgcccgcg gggcacggcg ctgcgcccgcg cccgcagcgt 300
cacggacgac gacctcgacg agtccgcgg ctgcatcgac ctgngcttcg gcttcgagcc 360
ggcgcacgcc gccgcgtgcg cgtgcgcctg cgctgcgcc gggag 405

<210> 13775

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B1

<400> 13775

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atcggaacctg agtcttctcg gggtagcag ctacctttgt atgttggtgc tcctgtgcy 120
agcgtgctgt gtcgtatcac ctggtttgtg agattagttg ttgtcaaact tgcttggttt 180
gattggttgt gcgtttaaga gctgatagtt atatacatat attgctttgc tataccgccg 240
ctatatctat gtagcccttg atgtatgtat ctggattctg aaatgcaaga atgaaccttg 300

agcagccctt tgtgttgccg atattttgtg gtgccgt 337

<210> 13776
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B12

<400> 13776

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ccctttttca atttttttac atgtgaaaga ctgtggatgc cgctgcattg tacagatagt 180
tgactcgttc gccagatgaa aaatgtataa caagagtcgt aggttcaaga tagggagaag 240
atgaaaccgt gatgattcat cattgttaaa aagatggact gtctgttga aaaataaagc 300
tgattaataa ccgcaataat gtcggtccgc 330

<210> 13777
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B3

<400> 13777

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accgcaacgg cgacgtcgag gaggtgagcc gcaactacta cgaccgcgac gtctgccgcc 180
tcttcctcgc cggctctctgc ccacacgacc tctttcagct cagaaaaatg gatctcggtc 240
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gaacagaaaa ttttgataga gaactcgagg atatgataga aaggctcatt gtggagtgtg 360
acagggaaaa tcagagggcc ctaaaccggct tgcagatgat gatgccaatg ct 412

<210> 13778
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B7

<400> 13778

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cgagaaaatg caaggcggat ccagcggcat cgtgtatggt ggctcaagt accaggcgcg 120
gtgtatcgcc gacatacgcg cgg 143

<210> 13779

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B8

<400> 13779

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ggtgtatcgc cgacatacgc gcggacgccg gctcgaccac ctctctcgcc ggcaccctta 180
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gatcacaggg tcattctccac agtgtacact tottgcgagg gc 342

<210> 13780

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-C1

<400> 13780

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gctgctccgc gagggccacg acgtgacggt catggagcaa agcggcggcg tcggcgggca 180
gtggctgtac gacccgaggg cggacggcgg cgaccactc ggcgctggcg gcgcgcacag 240
cagcatgtac gccttc 256

<210> 13781

<211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C10

 <400> 13781

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 gccgcgcccc ctgcgcgagt ggtcagcagg aggtccttca ccgtgcgtgc ctctctccgc 180
 aaggccactg ccaccgtcgt cgtggccggt gccgccagcg tcctgcttgc cggcggcggc 240
 gccatggccc aggaggtgct gctgggcgca ggcgacggcg ggctcgtctt cgagcccagc 300
 cagttcaccg tcaaggccgg cgacaccatc accttcaaga acaacg 346

<210> 13782
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-A2

 <400> 13782

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 caggtgtgat atcttagccg tgctcggttg ctccgactgg tcttaggcaa agagggtcgc 120
 catgctcgcc tgggtccagat ggttgaagca catgggcccc gactggtcgg gcctttacca 180
 gcacgagggc aacttcctgg cgcagcagcg gctcgccgta atctccacgt tgaccggcga 240
 ccagacgttg ttcagctaag accgcaccgt cttggcggtg gccaatggag agatggacaa 300
 ccaccttaac gttctgaagc agttcacttt cacacacaac ttca 344

<210> 13783
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C11

 <400> 13783

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cctacggcga gcggagcgag gaggaggcgc ggcggatgta cgccgagtgg atggcgggcg 180
acggccggac ctacaacgcc gtcggcgagg aggagcgcag gttcgaggtg ttcagggaca 240
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tcgggctcaa ccgcttcgcc gacctacca acgacgagta ccgcgccacc tacctcggcg 360
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<210> 13784

<211> 296

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-G6

<400> 13784

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gcagcagtgc cagtgtctgc agaagcctcc gcctccgccg cccaagtcgc cgccgaagcc 180
gccgccgtgc acctgttcga gccacgccgn ctgtgtctgc ggcaagacac cgccggcgggt 240
ctggccaccg atgccgncgn cggctctggcc gccccgtgg ggcacctgca acgtcg 296

<210> 13785

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G8

<400> 13785

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ctcaacaacg ccaaggccgg cggaccctgc ctacgccgc ggcaccagc gccgccttc 180
cttgcgtcgc cgtcgacggc atcggctggg cggaggttct ggaggcgcag ccccggtgg 240
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gaagccagcg gcgaggaagc cgatagcaag gcgtcgtctg ccgggcatga tgatgcatct 360

accccaacag ggggatcc

378

<210> 13786

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G9

<400> 13786

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gtggcgccgt gcacggccca gaactcgccg caggactacg tggacccgca caacggggcg 180

cgcgcgcgacg tgggcgtcgg gccggtgtcc tgggacgaca ccgtggccgc gtacgcgcag 240

agctacgcgg cgcagcgcca gggcgactgc aagctgatcc actccggcgg gccctacggc 300

gagaacctct tctggggctc cgccggcgcc gactggtcgg cgtccgacgc cgtgggctcc 360

tgggtgtccg agaagcagta ctacgaccac gacaccaaca gctgcgcgga ggggc 415

<210> 13787

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-H12

<400> 13787

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ggacgctgga agccaagccc gcaccggacc catgctatgc atgaataact gccgatgctt 180

caatcgctca gcgaccatga acatgagctc caagtgccac aaggagatga taacgaacca 240

ggatcacgcc aagctggctg cctcctctat cgacagcctc gtgaacggca tgcactccgt 300

catggagccg gttgttgctg gcagcaacac ggtagtaact gttgccc 347

<210> 13788

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H2

<400> 13788

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acaggcgag atccacatgg gctccatcgt tgccgacgcc gatcgccggc cacacgccgt 120

gtgcgtgccg ttcccagcgc agggccacgt gacgccgatg ctgaagctag ccaaggttct 180

ccacagccga ggcttcaca tcacctcgt caactcggag ttcaaccacc gccgcttgc 240

ccgctcccgc ggccgagcg cgcttgacgg cctcccgac ttacgcttcg tcgccatccc 300

ggaggggtctg cccccgtgcg acgccgacgc caccaggac gtgccgtcgc tctgccgcgc 360

caccatggag aactgcctcc cgcatt 386

<210> 13789

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H3

<400> 13789

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tccgtcgagg ttgccgcgca gcagacttgc cctgccgacc tcgacagcca atgcgacgg 240

ggtgcgcctg atgactggga gggggaatag ttccccggcg ttccgaaaat cacgtctgaa 300

ggtgcaacaa gcaagaaccc tgttgcttat aagtggata aactgagga aggcattctc 360

ggaaagaaga tgaaggactg gatgcgcttc agtgctgcgt tctggcacac gttccgt 417

<210> 13790

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H6

<400> 13790

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 ctggcgctcc tgtgtggaac gacaacgagg cgctgactgt ggggcctcgc ggtcgcatcc 180
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 gattcgccgt ga 432

<210> 13791
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 13791

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 cttctctgtt ttatgtggtc gcacacggcc ttattttagt tattacacca cagaagctgg 180
 ctgaccccca ctgacggaga ggtgattgat gcaagcattg tgtatgatcc ttggacaagg 240
 gaatcgcggg ggtttggttt tgtcaccatg gctgctacta aggaggcaga tcaactgcac 300
 aaatatctgg attgttctgt gttgcaagta ctctacacag aacattttat tgttttgtct 360
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 ct 422

<210> 13792
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-H9
 <400> 13792

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 ataatttttaa cacaccaaaa acctaagtgt aggcattttt ctgtcagtgg ttttgctgct 180
 gtgctaaagc ctgatccatt tgatggtaaa aacttcttga tttggaaagc taaaatggta 240
 ttgtggctta ctgtaatgtc ttgttttcat gccgctgagg gcaagcctgt caacttacct 300
 cctgaggatg aggctaagtt taaggctgaa gacaacctct ttcgaggagc agtaattagc 360
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<210> 13793

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A1

<400> 13793

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 catcctcgcc tgctccagaa ggttgaagca caggggcccc gactggtcgg gcctctacca 180
 gcacgagggc aacttcttgg cgcagcagcg gctcgccgctc gtctccccgc tgtccggcga 240
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 ccacaagaac gttcgggaagc agttcacccg cacacacaac ttcagcacgg gcagtgactg 360
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<210> 13794

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A10

<400> 13794

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 ctcataaata atgcgggtca ccaactccat gttatctgaa ctttccacag gaattcccc 180

tatctatagc tgccgatgcc gtactcgtgg tctatcggac attgagagcg actaggcgta 240
 caagctccac tactagtga tacaccgga tggcacagtc taatcagagc ccgaatcgta 300
 cttagcgact aactcttaga gtcaggggt tgaatctacc tgcgcttatg gttct 355

<210> 13795

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A11

<400> 13795

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 aattttcaag cttagatggg ggctcatctg cctgatccga gctctgctgc tttttcttag 180
 gccgccgcac tgtatcacia ctatcacagc acctacgtgt tcacaagtct acgcatttag 240
 actaccaata cactacattg gactatgcac aactaggagc catccatcaa accggcacat 300
 ggatccatac tactcgaact atagaaacca cgtgccttac ccatactatg ctctgccag 360
 atggcaaata ccatccgggc atgcac 386

<210> 13796

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G4

<400> 13796

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 ggacccggac ggcttcggcc gccacggagg cggcgttcag cagcacgtcg tcaaggagaa 180
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 tgaccacggc ggccacggct tcgtggtgcg cgagaccagg gtcgaggagg acatcaacac 300
 ctgcaccggc gaggtccact agcgcatgga gagcttcctc gccagggcta actgagccgc 360
 ccggtggtcg gcatgcactc ccgttcgagc ctgactgctg gccttatgta tgtctgccgg 420

tgactggttg tgcaagg

437

<210> 13797

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A12

<400> 13797

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ctacatatta ttatttctct aattcaggag tggctctgtgc tgggagggaa gggatctgtg 180
gggctgcagc cccatccggg ctgaggggtt aaggatccgg ccctttggtg tgctcccca 240
atcgggttat tatttctcta attcgggcgt ggtttgtgcc gggagggag gaatccgtgg 300
ggctacagcc ccatccgggc tgaggggtga aggaaccggc cctttggtgc gctcccca 360
atcgaggaaa aaggggcatc ggatgct 387

<210> 13798

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-F12

<400> 13798

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ttcgcgggtg gttcttcccg gggcttgggg cctggccctt ttttgaaacc ttctttcccg 120
gttccaacca cttcagaga ggattaaaag aattagtgcc ccaaattaaa gggaatactg 180
ggctggaatg gcagcaaaga tctattgaat tcagttccat tatacataga catcagtcga 240
taaaatcatc tttggcttga acgtatgcct gcattggatg aagcaaatta tttggtgaag 300
agagctgctt ctacacaggc tgcagtttca tctgcaaatt ctgctcctgc agtcacttct 360
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<210> 13799

<211> 323
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-F2

 <400> 13799

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 gatcgtgacc gtgacgcagg aagctataag ctagccaaga caggaataat aatggcggcg 120
 tcgacggtgg cgagcctctc tgtcccgggtg acgacgacga ccttcgcggc ggccggcgga 180
 gcggggcggcg ccgacgtgct gatcgtcgtc ccgaggaggg cgggcgctgg gcgcgtctgg 240
 ttccccgcgg cggcgcgccg cggcggcggc agcgggcggg ttggtcgccgt gcggtccagc 300
 gggccggcca cgccgncgga gat 323

<210> 13800
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-F4

 <400> 13800

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 gaggggatgg accctagcct gaaggaggag gtgatgaagg cggaggagga ggccaggtcc 180
 gcggcgccgc cgcggtgccg ggtggtgcgg atcatcgtgc acgacgagga cgccaccgac 240
 tcgtcttcca gcgacgacga gggagaggag gcggnggagc gcgccgcggc gcacccggcc 300
 gcggcgccgg cggggagcgt gaagcgcagc cgcgtgctgc tccagtccgc tgggtgcggg 360
 gcggaggagg acggcgaggg ggccaggttc ac 392

<210> 13801
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-F5

<400> 13801

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acctgaagca gctgcaggcg caggtgcagc tgatgagccg gatgggaagc atgatgatgc 120

ccatggcgat gccgcagctc cagatgtcga tgatggccca gatggcacag atggcgcaga 180

tggcgagat ggcccagatg aacatgggct cctcgggcca gccgggctac gcaggcctca 240

cgccgcccac gatgcacccg ccccccttcg tccccgtgtc ctgggacacc accgncaccg 300

tcaccacctt cctcgccccg caggccggca ggggcacggg gccagcggac gccttctacg 360

ccttcctagc ttgccaagcg cagcagaacg ggcagcagca accgggtagc atggaggcgt 420

aca 423

<210> 13802

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F6

<400> 13802

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ggacctgcgg tatgag 76

<210> 13803

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F7

<400> 13803

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cgggtgcgcg cttcgtggcg gacgaggcgg ccttcgcgcg cagcctggac gcgcgcttcg 180

ccgcgctgga cgccaacggc gacggcgtgc tgtcccgcgc cgagctccgg cgcgcgctcg 240

agtccttcg tctgctcgac ggcggcgggt tcgggtccgt ccagccggcg ccgctccccg 300

ccgaggtcgc cgcgctctac gacgccgtct tcgagcagtt cgacgccgac cacagcggcg 360

ccgtcgaccg cgccgagttc cagcagaga tgcgcgcgat catgc 405

<210> 13804
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F9

<400> 13804

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actgtggaag aaaagcttca acgtctgcac tcgcatgagg cctatgaaat gatcgagaat 120
cacctacccc tcctcctggg gcagcgtcaa ggtgacgcca ctatcgcagc cataagtaag 180
ctccgtgttg gccaggtcta tgctgcatct gtgatgtacg gttatttctt gaagagagtt 240
gaccagaggt tccagctcga gaagacaatg aagggcctcc cttggggatc agaagaggaa 300
gacagcgctt tgaatcaagt tatgatgacc gacttgatgc cttcagctca gacttctagc 360
tctcatccag agatgggctc gtggaccgcg cctgccttca gcaca 405

<210> 13805
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G10

<400> 13805

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cggctccggc gacgacgacc gccgccgtca tctatgcct atgcgtcgtc ctctcctgtg 180
ccgcggtga cgaccgaac ctccccgact acgtcatcca gggccgcgtg tactgcgaca 240
cctgccgcgc cgggttcgtg accaacgtca ccgagtacat cgcgggcgcc aaggtgaggg 300
tggagtgcaa gcatttcggc accggcaagc tcgagcgcgc catcgacggg gtcaccgacg 360
cgaccggcac ctacacgac gagctc 386

<210> 13806
<211> 393

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-G12

 <400> 13806

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 gccgaccggt taacttgaaa aaaggaactt gaggagtgc tgaatgatgg ccacaggtct 180
 atgtggcagc agtgttgagc tcattggaag cctttctttg ctctgaggac ggtccagggg 240
 ttctgaaagc cgtccgtgca gctggtgagc ctctcgtcga tgattggagc tgtctcaagt 300
 ccacggttcg tacttttgag gcgcaatgtg ggctggtggc gcagtatggg atgaagcaca 360
 tgcggtcctt cgcaaacatc tgcaacgctg gca 393

<210> 13807
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-E8

 <400> 13807

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 cctacaccac gccgctcgcg tcggcgggcg cgctgcttct gctgctgctc gcgccgctcg 120
 ccgcgggcg gcacagcatg tcgatactct cctacggcga gcggagcgag gaggaggcgc 180
 ggcggatgta cgccgagtgg atggcgggcg acggccggac ctacaacgcc gtcggcgagg 240
 aggagcgag gttcgagggt ttcagggaca acctccgcta cgtcgacgcc cacaacgccg 300
 tcgtcgacgc gggcgtagac tccttacggc tcgggctcaa ccgcttcgcc gacctacca 360
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<210> 13808
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-G3

<400> 13808

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aagtacggaa gagataggtc ctgttcagcc agatgattac aagcattcgc agggcttgtt 120

agatttgagg ttcttagtct aaaatcacat tgaataggga gatgaacaca tgtgatgctg 180

attatgtgtt atctacattt gtctctatgg ctgtaagatg gccatatatt tcctcgaaag 240

tgatcttgat tgatcatttg tgctatgtat tattataatg acatgggtca tgta 294

<210> 13809

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D3

<400> 13809

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gtccagctag ctctacgctg accaccggcc gtcatggcag gagcgccgca gccgtcctcc 120

gtcggccacc ggcgggttct aggagccgtt tgagggcgca cgcgcagaaa cccgacgccg 180

gatcccgtgg cgcgggagcc gagaccgcga cgtcgtcctc atcctcccgc tcggagaacg 240

ccgtcctcaa ggccgcctgg tacggctccg agctcctcgg catcgcccg cgtcttctcc 300

ggcccgcgcc gtcgtcgctt caggaggggg atgctggcgg tggcggtgac gcagagggcg 360

aagcggcgcc ggtggcgggg gccctggacc tggaccacgc gggagtg 407

<210> 13810

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D4

<400> 13810

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ggaagctcaa gttagaagaa gcaccagtgc ctgatcgatg gcggcccagg ctctcctctc 120

cggccggcag ctgctgggcc gcccgtgca gtcggccgct tctaggtcgt cggcgaggaa 180

ggcgcccttc gtcgtcaggg ccagctgcag cctccagcc aagcaagggt ccgacaggca 240

gctgtggttc gcgtgcaagc agtccctctc ctacctgat ggcacgctgc ccggcgacta 300
 tggcttcgac ccgctgggcc tctcggaccc ggagggcacc gggggcttca tcgagcccaa 360
 gtggctggcc tacggcgagg tgatcaacgg ccgatacgcc atgctgggcg cgtggggcgc 420
 cat 423

<210> 13811

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D5

<400> 13811

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 tgggcggcgg atcgccatgg gattcgggaat gcggaataat aacaacgggg cgagctgctc 300
 gtcgtggcgc ctggaccggy cggcgccgct gctgccgagc cacggcagca gcggggggccg 360
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<210> 13812

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D6

<400> 13812

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 ctacatcttc ttatggagca aggtctacga cgtgacctgc ggccgtggct tctacggccc 180
 cggcggcgcc tacgccgtct tctcgtgccg cgaggccagc cgtgcactaa gcaagatgat 240
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<210> 13813
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D7

<400> 13813

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 cgggtttcagc atgatgaaca agtttacaag gcattcttgg acatcctcaa catgtaccgc 180
 aaggataata agtctatcca agatgtttac catgagggtt ctatgctgtt caaagaccat 240
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 gtggcctcaa aggggtgggtt ggttaagcgg gaggacagga gctctttagt gcctcctgca 360
 aataagatcc ttcacaatga taagagggac agagtttacc tgtcacatgc tgaccgtga 419

<210> 13814
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D8

<400> 13814

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 acggataata agtgtatcca agacgtttac catgacgatg ctatgctgtt caaagaccat 240
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 gttgtctcaa tgggtgggtt ggttcaacag gaggacacga gcgttataga gcctcctgca 360
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 ttt 423

<210> 13815
 <211> 395

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-D9

 <400> 13815

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 ctcccgcgcg cgccggcgcg taccctcatc cgcaaggcgc gtaccctcac ccgcacggcg 300
 gccacgggta cctcctccc gccacctacc ccgcgcactc ggcgactac gggcacacgg 360
 ggtcgtacca caccagccac aacagctacg gcggc 395

<210> 13816
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E1

<400> 13816

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 ttgactcaac atgctcaaca agttcacaac gcattattta acattcttta tatgcaccgc 180
 tcgcatactt aacctatcca ctaattgtat cctaagtctc ctatactatt gaaacaccat 240
 tcttaattgc ttcaaaactt ccaatgattg atgcctgata cttcagtgtc tccacaatca 300
 tcaacctcta ctggttcttt ggttacacgc taagacacta gatctttaac gccttctgca 360
 aataacatac ttacaatga tccgacgcac atattctacc tgtcacattc 410

<210> 13817
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-E10

<400> 13817

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<210> 13818

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E3

<400> 13818

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gtaattttct aaacaattga cacgatcaaa gttctcgtac tagctgagaa tgtatcacca 180

ttgcagtgga aggaacttat gaagggtgct aacgagtcag aactagatac atggaggggc 240

atctcactag atggttacct tgatggagtt caactgattt aatgctggac gatgccttgt 300

actacaagga tgcttttgca gagcttaagt attcacatcg tgatatgtat gtcgaaactg 360

atcgatcttc agattagtgg gacatggcac ttgaaatc 398

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<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E4

<400> 13819

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taatcctccc cttaacttcg taatcaacag actaaataac agctcttaca ccatctgata 180
ctagat 186

<210> 13820
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-E5

<400> 13820

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<210> 13821
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E6

<400> 13821

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gcaaattcct ttgcttatta cgggttagta ttgctgacat cgcagttgag tgatgcaaat 180
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gacactttca tcaactagttt agcagaaatc ccacgtttat ttttgtctgc tgatcttgggt 300
gattgggttg gtcgaaaagc ttcgatgtgg tctatgatgt tcgcatgctg tgctttcctt 360
ggaccacttg tacttcaaca gactgagttg ttgactacta ttcttctatt tggtgcccggt 420
gcatgtgcc 429

<210> 13822
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-D2

 <400> 13822

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 tggataggag gtgaaaagta ggtatagaaa atgatatttt atggttgtag tggggtatag 120
 gggaaggatt tagggggaaa cgctgtacag agtggagata taggggggaa gagaacgctg 180
 acgtggcacg tgagtgggat ataggagag aaatttaggg gtaaccgctg aagacagtct 240
 aaaggctcat ctgtgtgtat tctgtcatgt catgtcatgt catgtgtgtt ggtatatgat 300
 ggcttggtcg tcgtaatgta atgtgtggac aataaatatg cggggttgca cctcaacgta 360
 acttactagt acttgctatt gcgatatata tgtactttat tataataat 409

<210> 13823
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-B6

 <400> 13823

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 ccatcgatcg agtcaagcac caccaccaca accaccactt ctataagcat gggcgaccaa 120
 agcgttgcga gtatagactc ggatgggctg acgcctagcg ccgctcttctc gcagatcatg 180
 aaccccaagg ggcggtgagg taaagctggc cccaatcggt accttgacagg tgtaatttat 240
 tcattcagaa tatttcattt ctttaatgtt ctctcaagtt aaggcttaag aaccagaagt 300
 gtgaggattg tttcgtacta gatattctgc cttgccttgt actacttgct tcaccgagta 360
 ttgtaatgac tatacatctg ttggcttgta ttgtaccgct gctattgacc cagccagt 418

<210> 13824
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-C10

<400> 13824

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gggatcgaca ggggaaaggg aaggtgacca gccggatcgc taggagctgc agctcgatcc 120
ggcgggcca tggggggaca cctggtgtcc atgctccggt ggccgocgaa cctgggcctg 180
cccatnctgg ccgtgctgct ccccgcgccg gccgctcacc tccgggtcca ggtccaggat 240
tggcggcagt ggcagtggca gcggtcgcgg gccgagcagc tggacgcgaa cgcgcggcgg 300
ttgaccacgc tcgtgcggaa cgtttccgtc ctggtggacg ccgctctgtg gggcg 355

<210> 13825
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-C11

<400> 13825

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ctgcgtgctc cggcgatgca acggatttcg gctacgactt ctgcgctcct gctacaccgg 120
cggttcgac ttccttcca ccaccttctg ctccctacgc ggctggcag tatcccatgg 180
cggttgacc acccgaccgt cgatgcagcc tgcggtgcga accgcggcgc cggtcgaact 240
caccatgtgg ccgccgcca ggggttactc ccagttcgcg agcgggttca ccccgctgaa 300
gccgaagccg ctgcgatcca tgctcgacat cgaacgcgcc aagggcctct tccccgacca 360
cctngtcgcc gcatgggatg actatcat 388

<210> 13826
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-C12

<400> 13826

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 gggccaattg ggaccaacgg caaacttggc agagaaagga gaaaaggccg gaagccggcc 120
 gggatcggaa aatgggcccg aaaaaccccg ggagggacca gaaggaggag gagaaggagt 180
 ggtggctgaa ggatggaggc ttgaaggaaa gcccgggccg aacttcagga tgcgtgattc 240
 gacagagacg atgacacgat gaggacggac ggcgacgcgt cggttcgncg cgctccttcc 300
 agtcccataa gtggccgcag agctacaggg aaacaactga tacttacaca atcgctgcat 360
 caccgagctt tgggtacttg ggcccttcta caagcaaat 399

<210> 13827
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-C2
 <400> 13827

gaagcaaaaa gggagacatc tttaggggtca atatcatcca atgttttctga tgccagaagt 60
 aatatgattg gagagattga gaacagatca acattcctct tagctgtaaa agctgatgtg 120
 gagacacaag gagaatttgt tgaatctcta gcaaatgagg tccgagcagc aagcttcata 180
 aatattgacg acgttgctgc atttgtaa atgttggtg aggagttgtc tttcttggtt 240
 gatgagagag cagtgctaaa acattttgat tggccagaga gcaaacaga tgcaataaga 300
 gaagcagctt ttgagtacca ggatctgata aagttacaga acagggtttc atcctttact 360
 gatgatccac aacttgcatg tgaagaggct ctcaagaaga tgtattcttt gcttgaaaaa 420
 gt 422

<210> 13828
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-C3
 <400> 13828

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 gcgccggcga cgcccttcgc cggaatccg tgccgtctcc ggcgggcgtc tggctcctct 120

gccgccgccc ttccggctcgg gccgctcttc tggccatggg aaaaggtgaa aatcggtccc 180
ctttctgttt ccccatggg ttttgaaca tgggcatggg gaaaccagct actttggggc 240
tatcaagaaa gcatggacaa cgaacttcag gattgcttca atctggctct aaggaatggc 300
ataaaccttt ttgacactgc tgactcttac ggaactggaa ggctgaacgg acagagcgaa 360
cggctactcg gtaaattcat ccttgagttt gaagggagga ttaaattctcc agatgatgtg 420

<210> 13829
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C4

<400> 13829

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gcatggcgac ctccgcggcg ctctccaccg ccgccaatcc caccagctc taccggtccc 120
gcgctttgct gggcaagccg gtgaaggggc ttggcctgag catgggccc gagcgcgcc 180
agcggagcat tgtgtgccag gctgcgagca gcatctccg cgaccgcgc cccgacatgg 240
agaagcggaa gctgatgaac ctctgctcc tcggcgccat ctcggtgcct accgtcggca 300
tggtacgacc ctacggctcc ttcttcgttc ctgcctgcta cggaacgcc ggcggtggga 360
cccacgcgaa ggacaagctg ggctacgaca 390

<210> 13830
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-051-Q1-K1-C5

<400> 13830

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gttgaggcca gcagagtgat gagtgaacgg agtcatgctt gtgagattag gctttgtcgt 120
tgtagcctcc gtcgcagctt taactcttca gagagctaac agtggggcca ggcacagcaa 180
agactatgtc caagcaagga aaaggaagga taaggctaac aattctgaac atggggagaa 240
agaagaagag aaggaagagg taaaacaat cagcggcata atcaactcag cccgctcgt 300

agacgatgac gacgatgata tgctttccga gatcgaaagc ctncatcag gagacattga 360
catccctata ccaagcgatc gcttcgacgt taatggacgg tcacggtaca acaacgctta 420

<210> 13831
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C6

<400> 13831

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gccagtcccg cgagcaccat tcaccacacc agcgcagccg ccatggccga cgtcgagaag 120
gccacccccg tggccgcacc ggccgagggc gcggggcgag acgtggccgc cgggagaacc 180
ggcgcggtgg ccgccctgct gcggcggtgg cggaccagag acctgctgga ccggtcgggg 240
tccgcgctgc gcgccgcggc gtgggcgttc tccctgctgg cgttcctcgt catggcctgc 300
aacgagcatg gggactggag gcagttcgac cgctacgagg agtacaggta catcgttgcc 360
atcggcctgc tggccttcgt ctacacgacg ctgcagctcc tccggcacgg cgtcc 415

<210> 13832
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C7

<400> 13832

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tggggaaaca ctgtacagag tcgacatcta agacggaaga gaacgctgac ctggcacgtg 120
agtcggacat atggagagaa atctaagcgt aaccctcaa taccgtctaa aggctcatct 180
gtgtgcattc tgccatgtca tgtcctgaca tgtcgcctta tatatg 226

<210> 13833
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-C8

<400> 13833

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gatgcagccg gccaaagatcg gcgggccgggc gccctttgcc tcgctgccgt cccgcccgtc 120

gtcgcaactc gcctgcaggg cgttcggcgt cgacgccggc gccgccagga tcacgtgctc 180

cctgcaagac gtgccagca ggtgcgtcga cgccgggaag ctgccgggt tcgcgctcgg 240

cacctcggcg ctctctgtct cgggcgcgag cgcggaaggc acgccaaga ggctgacct 300

cgacgagatc cagagcaaaa cgtacatgga agtgaagggc acgggcacgg cgaaccagt 360

cccg 364

<210> 13834

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-C9

<400> 13834

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atgaaggctc ggctcgctcg cgcgaccgc gccacgcgc tgctgaagaa gaagtccgac 120

gcgctgacgg tccagttccg cgccatcctc aagaagatcg tcgccgcaa ggagtcatg 180

ggcgagacga tgcgcgcctn ctctttctcc ctgccgagg ccaagtacgt cgctggcgac 240

ggcgtccgcc acgtcatcct ccagtccgtc cgcgcggcat ccgtccgct ccgtccac 300

caggagaacg tggccggggc caagctcccc aagttcacc acttcgtcga ccccgccgcg 360

gcctccgggg gcccttcaa cgcgtncgc agc 393

<210> 13835

<211> 514

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-051-Q1-K1-D1

<400> 13835

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gttggctcca cnnttccaat tattagtcag atgacaaaat gtggatagga gggtgaaaag 120
tagcgtatta gaaaatggga tatttttnnat ggttgtanng tggggatattt aggggaaggg 180
ggatttaggg ggtaaaccgc ctgttnnacag agtggcagat atttaggggg gaagaagaac 240
ccgctgacgt gtgcacgttn gagtgggata ttagggagaa gaaatcttag gggtaacccc 300
gcttaagacc agtctaaaag gctcatnnct gtgtgtatat ctgtcanntg tcatgtcnna 360
tgtcatgtgt gtctgggtatt atgnaatggc ttgcgtcgtc gtaaattgtaa tggctgtgga 420
ccaatataat attgccccgtg ttgcaccttt caacgtaacc ttactaagta ccttgctatt 480
tgcgatataa tatgtacctt tagttataat aatt 514

<210> 13836
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D10

<400> 13836

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atgaaatgtt gacactagta tcatgaacat atccccagtc tgggctaact atgggacggc 120
taattgggtca catgctatgg aagacgactg ggatttatct acaagtgatg ctgatggact 180
aagcttagat gcatgtatca acctagtgcc aggatatacg atgctcacca agtggtcgtt 240
aattaacaac actaacttac tgtcattcca ggttgcaatt ctgatctgtt gcggatcgtg 300
ct 302

<210> 13837
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-D11

<400> 13837

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agaatctcat tctcaaagaa ggaccagaaa caattgctgc tttcattgct gaacctgtga 120
tgggtgctgg tgggtgtcatc cctgctgcaa agacctattt tgacaaggtc caagcaatcg 180

tcaagaagta tgacattctt ttcatagcag atgaggtgat cactgcattt ggaaggctgg 240
gaactatggt tggatgcgat tacta 265

<210> 13838
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B5

<400> 13838

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cccaagtttg ccagtcctt agtggtgac catcggtggc aattagtcca cctcgccgta 120
accagaattc ccagaagaag atgaaattca agaagtagtt tctgaagagg agtctgctcc 180
agtgcctgct catcaagtgg atggagctat ctaactaaag gttgggtaga aggatctaga 240
acctcctcac tgcaacaaag ggtaagcttg aaccgggcta ttccatacat gaaaagacaa 300
tcacgcactg ggagtgagga gatggcgaga gtggcacgta ccctcctggc aaaggaccgc 360
ctaaaaggcg tgggtgtgctc tcgggtggcg cggacctgtt catgcagtgg aggatccgtg 420
g 421

<210> 13839
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-H6

<400> 13839

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ctagcttggc catgtaca 78

<210> 13840
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-H9

<400> 13840

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 cgcaccggcg ggtcctctc gccgccccca acaactcgac ccctcgtcgg ctctgggcc 180
 ccgctccgcy cgcctttctac taaaactaca acagcgggtgc cgtggaggct ccct 234

<210> 13841
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A1

<400> 13841

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 aaccgccccct gcaaggttgt ggaggtttct acctcaaaga ctggtaagca tggccatgcc 240
 aaatgccact ttgttgccat agacatattc aacgggaaaa agcttgaaga tattgttcct 300
 tcatcacaca actgtgatat tccgcatgtg aaccgtactg agtaccagct gattgatata 360
 tcagaggatg gatttgtgag ctttcttact tcagatggca acac 404

<210> 13842
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A10

<400> 13842

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 agcgagtcgt cgccggccgg ccggtatata cgcaagaaag ccaagaaaaa cacttctccc 180
 tcttcctcca tatctccaag aaccaaaggt agctagctag ccgcgactcg ttggctagac 240
 gattcaagca gcagcgcagg atggtggcgc cgggtggtgat tgcgtcggcc gggctgggca 300
 tgctggccgg cgtggcgatg gccaacgggt ccctcgggaa cgggctcccc gcggccttca 360

ggtggaacgc gcgcccgcgc tgcgccacgt gcggcggtc tggccgcgtg gagtga 417

<210> 13843
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A12

<400> 13843

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ccgttggtga tgctgtaatg gaaaattcat ttctacgacc tcttgccat ttggagtgg 180
acctgccaga tgccccagaa aaagccccac gtctctctgc acaagctgtt gaccattct 240
caaaatttgg gccaaaggca gagatatcac atatattccg cgcaccagag aagaggccac 300
ccaaggagct ctgctagcg ttcacgggtc tcacgttct gccgtttatt ggattcttga 360
tagggctcgt tcgtcttga gtgaactga agaacttccc gt 402

<210> 13844
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A2

<400> 13844

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tcatgtcata gggggatgaa caccattct aatcgaaggc cgactccgga gcgtccaaga 120
cctaccaca tcatgtgcc accgtcgta agaacggtt catcgccatc aataaccgac 180
cctgcatggt tgtgaaggtt tctacctcaa agactgctaa tcatgtcat accaaatgcc 240
actttgtggc catatacata tccatcggtataaatcttga agataatgat tctttatcac 300
acatctgtga tattccgcat gtgaaccttt ctgcatacca tcttattgat atatcttaag 360
attgatttat gagccttctt acttcaaagt gcaacactaa tgatgat 407

<210> 13845
<211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-A4

 <400> 13845

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 ggggtcgcgc gctctcgtc accgtgctcg tcatgcgagc gccacggag cagctcgcgg 180
 ccgatctcga cggccacata cgcaggagg aggcatcggg cctcgacgtc cgttcgtcc 240
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 tggtagagct gcacgcgccc cacgtcaggg cggctatctc cagcctggct tccccggtgg 360
 cagcggtcgt tatggacttc ttctgcacgg cgctgctcga cgtgaccgc gagctcgcgc 420
 tgccgc 427

<210> 13846
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-051-Q1-K1-A5

 <400> 13846

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 caccatgcgc aagaccgtgg gcaagccaa ggtggcggcg tccggcagcc cctggtacgg 180
 ccccgaccgc gtcaagtacc tcggcccctt ctccggcgag ccccgagct acctaccgg 240
 cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgccgacc ccgagacctt 300
 cgccaagaac cgcgagctgg aggtgatcca ctcccgctgg gccatgctcg gcgcgctcgg 360
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 c 421

<210> 13847
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A6

<400> 13847

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atcgaattcc ttccctatcg attcctatag taaaattcct ataggataga acgtacacag 120
gggtgtacaca ttatatatga atgaaacata ttcattaact taagcatact ccttttttta 180
tttaattgagt tgatattaat taaatatctt tttttttaga tttttgcaaa gggttcattt 240
acgcctaata catatcgagt agaccctgtc gttgtgagaa ttcttaattc atgagttgta 300
gggagggact tatgtcacca caaacagaaa ctaaagcaag tggttgattt aaagctgggtg 360
ttaaggatta taaattgact tactacacc cggagtagca aaccaaggat actgatatct 420
tgg 423

<210> 13848

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A8

<400> 13848

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agatggcatc agcagagctt tcccgtgagg aaaatgtgta catggcgaag ctgcgccgagc 120
aggcagagag gtacgaggaa atgggttgagt tcatggagaa ggtagcgaaa actgttgact 180
cggaggagct cactgtggag gagcgcaacc tcctgtctgt tgcatacaag aacgtcattg 240
gagcccgcgc tgccctcatg cgcacatct cctccatcga gcagaaggag gagggtcgag 300
gcaatgagga ccgtgtaaca ctcatcaagg actaccgtgg caagattgaa actgagctca 360
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<210> 13849

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B10

<400> 13849

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gaggttcaga gctgctacac catcgacaac gtgaatgcga gcacgcacga catagagggc 120
atccccgcag accagcagca tatgatcttc gctgtcaagc agatggagga tgaccggacc 180
ctagcagtct acaacatcca gaaagagagc actctccacc tgggtgctccg actgcgatga 240
gccattaag ccatgagtca tttaatctgc tgctgtacct gagtatatgc gtcgtctggg 300
gccctctggg gtacctcta 319

<210> 13850

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B2

<400> 13850

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tggcttctgc cgagttatct tatctatcta tagtatcgtg ttaccgttcg cttctgtcac 180
cgtgttagtg tccgttctac ctttggatta ggtgttggtg ccccttttgt tcgctttggg 240
tgctcccgtc atgaaacgag acgagagaag aatgagcaag gtttttgttc gcac 295

<210> 13851

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D7

<400> 13851

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tttat 125

<210> 13852

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D8

<400> 13852

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atccttattc gcggctttttg ggctgctgtt gctagcccag cagattaact ctgagaacaa 180
atcggagtaa ctgacaggca ctgctgaag ttgtgtacct tatgccttgt ccttctatgc 240
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gttgcatttt tctttttata tttatttttt ctcttttttt ttttttttta cttttattta 360
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<210> 13853

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E10

<400> 13853

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acgctgagaa gattggcaag aggcaggtca tgatcaggcc gtcatccaag gtcatcatca 180
agttcctgac ggtcatgcat cgccatggct acattggaga gttcgagtac ttttatttcc 240
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agttctatct ttttttattt tttttattat tttatatatt tttttttgtc tttatctttt 360
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<210> 13854

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E11

<400> 13854

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gctttttgggg cataagacca tacatcacccg aaaccgaact cgtcctccac acggttgctt 120

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tatttttta 189

<210> 13855

<211> 151

<212> DNA

<213> Zea mays

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<400> 13855

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ctctctcgcg tcggccgccg cggttgccgc cgccgtcgac gcggaggacc cgctgatccg 120

tgcaggtggt tcccgggtgga gatgacaatt a 151

<210> 13856

<211> 119

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E5

<400> 13856

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ctttattggc gatgtactat tacaaccaat aattgtagat ttatccctca ataaaatta 119

<210> 13857

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E6

<400> 13857

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aaacgagccg atattcttgc actcaataca tcattcctta gtaacctcac agcctcttac 180
 tttctcaact accatatttc acactctctt ccaacacaaa ccgatttctt caacacatat 240
 catttccaaa cgacctatct cactcagaat gtcatgctca tctatcctac aggtccatc 300
 atcaacctga actac 315

<210> 13858
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-E7
 <400> 13858

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 cactccagct tctctagcat caagcgtgcg agctactgct ttcagactgt atagccatct 180
 tagcagttac aatattcctt cattcttttg ttcattggtct catctttata tgtctttttt 240
 tctttttttt tttttttttt tttttttatt cttttttttt atattttttt ttttttattt 300
 ttttttatat ttattttatt ttttttttct atttatctat tttttttatt ttttttaatt 360
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<210> 13859
 <211> 129
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-F4
 <400> 13859

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 cctaccaaaa 129

<210> 13860
 <211> 416

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-F7

<400> 13860

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agttctgcta agtggttttg gttgctctta taccatctgg ttttgcattt attgtttttg    180
actacttttt ttattctttt tttttctttt tttatttttt tttttttggt atttttcttt    240
ttgtttatta tttttctatt tttttctatt ttttttattt tttttttttt tttttttttt    300
tatattttta tgtttttttt tttttttttt tttttttttt tattttattt tatatttttt    360
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<210> 13861
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-050-Q1-K1-F8

<400> 13861

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aacaagacaa ggcactatac cagaagcaga aggagctcta caaaggctctc tttgggccaa    180
gtcctgaagc gaaaccgaag aaggcaaagt acctcgttgt gttttggcag tgcttggtgt    240
catttatcct ttatctggct gggatgttca aacggaagaa cgagtaggat aatttaccag    300
aaaaatgtgt agaactgggt gcctaattga ccaacctngt attataagga gtgttgaatt    360
t                                                                 361
  
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<210> 13862
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-G1

<400> 13862

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cttatccttt aacctcaaac tctccattaa ctattagctc cacgtttttt tccatctatc 180
tttatctatt ttatattacc acacttctac gattttctact ctctacattc tctatcaact 240
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<210> 13863

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-G12

<400> 13863

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tgtgtgcca tcgggtgtccc tgggcctgct tcttgctgag gccttcaccg tttgtcttat 180
tatttttatg gtctttgtct tcttcttgct caatttctct gggtttcttt tctttttttt 240
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ttttttatth tttttttttt tttgtttttt tttttttttt tttttttttt tttttttttt 360
gttttttttt tttttttttt tttttctttt attttttatt tttttttttt attttttatt 420
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<210> 13864

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-G6

<400> 13864

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tttttttttt tttttttttt ttcttttttt tttttttttt tttttttttt tttttttctt 180

tttctttttt tttctttttt tttttttttt tttctttttt ttttttttct tttttttttt 240
 tttt 244

<210> 13865
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D6

<400> 13865

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 ggataaagag agattgagga gggtcattag actaattccc cctgtttacc catacttcgc 120
 atgtaaagct tatattgtcg ttccctttat tcaaattcta tatccattgc attctttctc 180
 attatattat acatacaatg atcattttct atttacacta ttcattacta tttctcaatg 240
 tcttgtttcc tgatattggt atctacactt acttcttttt ataccctttt ttatt 295

<210> 13866
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-H1

<400> 13866

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 atataaagca actttacata gtcagaaatg acattttgac atttaagaac tagcactacg 180
 aattcagtaa agagggtcca ccagactcct tatcggtggc ctgctcacgt aacaaagcac 240
 aggctaccgc aaataatatg attcttgcca gacaccattc atattccatt accttgaaat 300
 ttatactc 308

<210> 13867
 <211> 180
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-A9

<400> 13867

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tcaacaaatc ttatttacag tcttgatcca tcttgcttc tcccatctct aattgacaga 120
aagattgaat tccctttacc tcatgtcaat actattccac tcatcttcca tatacacaca 180

<210> 13868

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B1

<400> 13868

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g t c a t g g t a a t g c t g a t a a c a a t t t g g t t g t t t g g a a a t a a g a a a t t g a a g t a c c a t a t t 120
c g t a g c a a t t t a t a t t t c g t c g c a c t a t t t t c t t c a t t a t t g a t g a t g a t g g t g c t g t a c 180
a g t t a c t a t g a a c a a c t a c a c a g g g t g g t c a c a g a t g a a t t t a a g g a c a t c g g a t a t g a t 240
c t g t a c a a a a a g a c t c t t t t g a g t t a a t g c c a t a g c c c g t a g t g c a a t t a g g t g t a c c t g 300
a t c g a t a t c t g c t g c a a t g c a c a c a a a c t g c a a t g t g t g t a c a g g c c t a a g c a t g g g c 360
a g t t a a t t c a a g a t t t t t a a g a t c a g g a c g a a c t a a t a c a g a t g c a t g t g t g a g a a g t t t 420
c t t g g a g a a a t t a a a a t 437

<210> 13869

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B12

<400> 13869

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g c a g a g a t c c a g g g a c a t c c g c g g g c c c c c c g a a g c a a c c a c g c a c c c c a c g g c c g a t c 120
t c g c c t g g c a c c c g c g c g a c g c g c c t a a a g t c c c t a t g c c c a c t c c c c c g c a c a c a 178

<210> 13870

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B3

<400> 13870

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acatggctgg ggaggaggcc aagaagggtg aggtggaggt caccaaggag cccgaggcgg 120

cggctaagga ggacgtagcc gatgacaagg ccgatcatccc ctctaccgac ccgcctccgt 180

cgccgcccgtc ggccgacgac tccaaggccc tggccattgt ctagaaagtt gcatatgatc 240

<210> 13871

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B6

<400> 13871

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tcgagaatag ggtttatgtc atgaccgtcc agcaggcctt tgacgacgcc tttctcgatg 120

cgaaggatca caggtgatcg gcgcgaggct tcggacctgc cgattttgac gtttttattg 180

cggcggagcg atgacactgg catctatagc ggcgcgctgt ttggatgctg acgatctgcg 240

atgtgtcaaa agcgcaccgg ctgtgctctt ctgtgctgcc tacaaggcaa tgcttatgcc 300

gtccctgcta ccaaaaagta cacatgtgta acaagcttgc tagtcggcat gtgagagttg 360

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ttt 423

<210> 13872

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B7

<400> 13872

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ttggcctggc aaaattcttc cttggtattg ggctcccagg tagcgcaaag gattgcttta 120

atcagattga gtctttgtca ttcttggaga acaatagggt cttcgttccg ttgatactat 180
 cactttcttc caaagtatct tcattgactt ctaaagatca gctcaagggt taagttactt 240
 cagtttttgg atcttctttt cttttactta tatttatctt ttttcatttt ttggtatctt 300
 tctttatatt cttttattta tatttttctt tatatttttt tttatttttt attactttta 360
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<210> 13873
 <211> 51
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B8

<400> 13873

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<210> 13874
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B9

<400> 13874

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gcgctgaatg tttcgaacca actgcctcgc ataacatcaa tagaacggga c 171

<210> 13875
 <211> 229
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-C1

<400> 13875

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ccaaacaaaa acagagcacg accatcggtc tctaagcaaa acgcgcagca cgccgggcgc 180
tccacgcacg taggctagca tagcgcgcac ggtgcttctg gaccagctt 229

<210> 13876
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-C3

<400> 13876

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ctagaggcaa atggtgctgc gaaaccgcca ccgaaaaata ccattttaat cgctgcgttg 180
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tttt 424

<210> 13877
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-C4

<400> 13877

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gaaacactgg aagaacattc ttcagagtaa tgtataggat cgtttcccag caatatttat 180
actgtttgat gattgtttat ctctttttga cttataattt ttcttatttt ttattattta 240
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<210> 13878
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-C6

 <400> 13878

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 caaaacgctc atcgtcaact gttccttctc taacaccact aacctagtct taccatgct 180
 ctaactttcc actgatgctg atgctattac gtgcacctga tctctacctt cttataactc 240
 taactaacta ttctatactt cttatcgaga atgttcactt gagctaacat atatcttaca 300
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<210> 13879
 <211> 135
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-050-Q1-K1-C9

 <400> 13879

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 aagggcactt ttcaaatcga caaaggcgaa aggttcgctt cttgtggcat ctcgctttcc 120
 ttcgagtgcc atggc 135

<210> 13880
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-050-Q1-K1-A4

 <400> 13880

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accggaaga ctatcacct cgaggtggag tcttctgaca ccattgacaa tgtcaaggct 180
aagatccagg acaaggaggg catccttcct gaccagcatc gccttatctt ctccttctag 240
catcttgagg acagtcgtac acttgcttta ctactacatc ctgatcgatt catcccttca 300
ttttttgctt ttccttatag ttgcatcca tatctttttt 340

<210> 13881
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D3

<400> 13881

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caaatccatt cctcaatcac aacattcctc atattgttat ctacacatac atctctttat 180
actccttata catctaatta tcataataat attcttaaata aataaaatcc aattatgaat 240
aataaaacaa 250

<210> 13882
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-G7

<400> 13882

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catggacgcg ttccggaaac agctggacgt gctcatgggc gccaaaccga acggcgacgt 180
cgaggaagtg agccgcaact actacgaccg cgacgtctgc cgctctctcc tcgccggtct 240
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ttctcttcaa ctgcggaaag attatgaaga agcgaaagca aagggaacag annattttga 360
tagagaactc gaggatatga tagaaaggct cattggtgag tgtgacaggg aaaattcaga 420

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450

<210> 13883

<211> 249

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-G8

<400> 13883

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ggcggcgggc gcggcagcgc tgctgctgct gctcctnctg tcgctcgccg cggcggcgga 180

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<210> 13884

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H1

<400> 13884

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gcacttggtta ccatttgagc atgtattatc aagcagtatt tgatctgtat gactgtattg 120

tgtttatatt ctgacttatg ttttttcctg tcatgttatg aatgcaaagg aagaatctga 180

tatggaaacg cattgacagg ctggatgtcc atgtacatgt atcttcatcc atattcttgt 240

gaagcttgaa ctgcgtggta tctgagttag agcttgcata tacaagttac ctcttgtgat 300

gcatgtaatt gaatttgcac ctgtttctgt atttgcagga ttgttccttc cgaagggggg 360

gcacaatggt taggaattgt tattatgggt tactgtaatg caactctaaa tcactatcgt 420

aatctgatct act 433

<210> 13885

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H10

<400> 13885

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gagaggcggt gatgctgttg gtgctttcaa tgtgtataac cttgaggga ttgaagctgt 120
tgttgcagca gcagaggctg aaaagagtcc tgctattctt cagattcatc cgagtgtctt 180
aaagcaaggt ggagtccac tggtagcatg ttgcattgct gctgcagaac aatccattgt 240
gcctatcagt gtccactatg accacggcat ttccaaatca gactttcttc aagctcttta 300

<210> 13886

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-H2

<400> 13886

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attgggtgca gtggcgccag cggcggttg ttatccgcgc gtgttcagct tcggggactc 180
gctggccgac acggggaact acccgttcgt ctacggcaac gactctgggt ctggcgngc 240
cgcgctccgg ccacctacg gcgagacctt ctccaccgc gccaccgggc gcgcctccaa 300
tgggcgctc gtggctgact tcatcgcgga caccctgggc ctcccggtcg tgcgaccgta 360
tctgagcg 368

<210> 13887

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H6

<400> 13887

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cggagtggaa gaagggcgga gactctcgaa cgaggaaaag gatcccttcg aaagaattga 120

acgaggagcc gtatgaggtg aaaatctcat gtacggttct gtagaggac agtaaggatg 180
acttatctgt cgacttttcc actatcaacc ccaaaaaacc caactctgcc ttacgtaaag 240
ttgccagagt acgattaacc tctggatttg aaatcactgc ttatatacct ggtattggcc 300
ataatttaca agaacattct gtagtattag taagaggagg aagggttaag gatttaccgc 360
gtgtgagata tcgcattatt cgaggaaccc tagatgctgt cgcagtaaag aatcgtcaaa 420
cagggcggtc taaatatgg 439

<210> 13888
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H8

<400> 13888
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tccaccacgg cggcggcgcc ggcgtcgctg ctgctgctgc tgctcgtgtc gctcgccgcg 180
gcggcggaac tgctgatcgt gtcctactgg gagcgacgcg acgaggaggc gcggcggaatg 240
tacgcggagt ggatggcgcc gcacggccgg acctacaacg cctacggcga ggaggagcgg 300
cgggtaccag tggtccggga caacctccga tacatcgacg cgcacaacgc cgtcgccgac 360
gcgggcgtcc actccttccg cctcggcctc aaccgcttcg ccgacctaac caacgacgag 420
taccgcgcca ccta 434

<210> 13889
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H9

<400> 13889
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taatgcggag aagggcgggt atgctgttgg tgctttcaat gtgtataacc ttgagggaat 120
tgaagctggt gttgcagcag cagaggctga aaagagtcct gctattcttc agattcatcc 180

gagtgtctcta aagcaagggtg gagtccact ggtagcatgt tgcattgctg ctgcagaaca 240
atccagtgtg cctatcagtg tccactatga ccacggcatt tccaagtcag acttgcttca 300
agctcttgaa gcgggatttg attcagtcac ggtggatggt tctcatctaa ctttagggga 360
taacatctta tacacaaaga gcatatcttc cttggctcat gcaaaagggt tacttggtga 420
agctgagttg ggtaggct 438

<210> 13890
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-050-Q1-K1-A1
<400> 13890

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gaaagaaatt tgggctctaa ccttggtggc ctgatggtaa aggatggact acaaggaaag 180
gtgaatgcca aaggttacta catttatgag aagggtgcga agccaaagcc agaccctagt 240
gttaagcatg tgatcgagga gtaccgaaag caggcaaaca caatgcctgg tggaaagcct 300
gttactttta tggatcaaga tattttggag atgattttct tcccagttgt gaatgaggca 360
tgcagggtta tggatgaaaa tgttgaaatt cgagctttcc aacttgatat tcttcctgtc 420
tttgaatggg cttttccaaa a 441

<210> 13891
<211> 370
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-050-Q1-K1-A10
<400> 13891

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caggcccttc gccggcgaag agcaccatc agattcccga gttgtttatc ccagttatct 120
tgcacccgag ggctccgtag catcttatta tgcttcaaga cctgtttctac ctgttgatc 180
agatgttctt agaaacgatg taatttctca accaagaacg catggttatg atggtccagc 240

aagagtgacc aatcctgctt tggctggcct gactggacta cctgctggag ttacggcacg 300
 gtggcctagt gctctggaag acccgtcttt ggctggcttg agtggattaa ctccagtcgc 360
 gtcaacatgc 370

<210> 13892
 <211> 287
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-A3
 <400> 13892

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 gtgctcgctc cgctctctcg acgccgccta cgacgcgggc gtcaacttct tcgactccgc 180
 agagatgtag gctcacctgc tccctcatct ccctgcctcg gttcgagagt aatgaaagga 240
 aagggtgtctg gaactctgga tgcacatttg caaacatggt tactcgt 287

<210> 13893
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-E7
 <400> 13893

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 cgccgcccgc gggaccgacc gaccgatcc tatcgatcga ggatgtcgta cgcctacctc 120
 ttcaagtaca tcatcatcgg cgacacaggc gtggggaagt cgtgcctgct gctgcagttc 180
 acggacaagc gcttcagcc cgtgcacgac ctaccatcg gcgtcgaatt cggcgcccg 240
 atgatcacca ttgaaaataa gcccatcaag ctccagattt gggacacggc tggccaagaa 300
 tcattcagat ctattactag atcatactac agaggcgctg ctggtgccct tttggtttat 360
 gatattacta ggaggagac cttcaaccat ctgcgaagtt ggtagaaga tgcaaggcag 420
 catgcaaatg ctaaca 436

<210> 13894

<211> 393
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-E8

 <400> 13894

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 cgchangacac gacggccagc gcgctcacct ggatcgtaaa gtacctccac gaccacccca 120
 agctcctcga ggccgtccgg gcggagcagg cggcggtccg cgaggccacc ggccggcggga 180
 ggagcccgct ggccgtgggag cacacgaaga gcatggcgct aacgcatagg gtgatttttg 240
 agagcttaag gatggcgagc atcatctcgt tcacgttcag ggaggccgtg gccgacgtgg 300
 agtacaagg gttccttata ccaaaggagg tggagggtga tgcctctctt caggaacatc 360
 caccacagcc ctgactactt ccagatcca cac 393

<210> 13895
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-F1

 <400> 13895

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 acaacctctg ccgagcgaga aattgtgagg gacatcaagg agaagcttgc atatatagct 120
 cttgactatg agcaagagtt ggagactgcc aagaacagct cctcagttga aaagagctat 180
 gagctgcctg atggccaagt aatcaccatc ggccgagaga gattcaagtg ccccgaggtc 240
 ctcttcacgc catccatgat tggatatggag gctgctggaa tccatgagac 290

<210> 13896
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-F3

 <400> 13896

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ctacaaacta ctatctttat ctctacatcc agacctatac gctttctatt ttaattcaac 120
 atattgatca ttcctccct tctctgtct atcattctct ataatatatc ctattaaata 180
 cccttttatt ttattcactt tccaattacc tttgtggttc aaccataaat aatcaaaaac 240
 taacctctat tactactatt taaactccac ttactttttc ctatatctta atcaacaatt 300
 cctccctctt ta 312

<210> 13897
 <211> 180
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-F6

<400> 13897
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 catggccacc gaggcgagcg tgccctccta gctctggcca tggcagccat cgtcgtggcg 120
 ccgtgcacgg cccagaactc gccgcangac tacgtggacc cgcacaacgc ggcgcgcgcc 180

<210> 13898
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-F7

<400> 13898
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 cccctacata ctccgtctc tataccgtcc accactaatg ctcccttact tcacataacc 120
 atctccatcc ctccatcaa tcaaagttcc tacattcaac tttttttctc cttcaaacta 180
 tccctctatt acctcaactg cacactgcc ttctactatt acttctaccc acattacctt 240
 tcatacccat attactcta ttacttcat 269

<210> 13899
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-G3

<400> 13899

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gtggtcagga gcttgtccca tggctgagct ccctctccat ggtcgcgctc ctcccctgct 180
ccatccatgg ctgccgtcga gtctccctgg acggggtcaa gtgccatacg ccgtcggctc 240
tagtctccag ctgcctagg tcggtgttcc tctccctctc ctaatctcca tggccgctgg 300
cgctcttgct cgggtccatg gtcgcgactc gagtcacccc tttgtgctgg ccgaccatcc 360
agccatggtg gcgcgcaccc ttgcttncta cttcactcgg cgccccct 408

<210> 13900
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-E3

<400> 13900

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agtttttagt tccaagggtc gatcatgttt tgatcccata aattctcttc cagccttcga 180
gcaactgagt ccatcttcct aagtcatcag cccagcgag acattgaagc atggggaaac 240
ttaaacagta tggatgat taatctcaac attttttttc ttgcagc 287

<210> 13901
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D4

<400> 13901

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gttttcaaga ctgagttgta cacactaact ggtgtgccac ctgaacgcca aaaaattatg 120

gtgaagggag gaatattgaa ggacgatgca gattggtcta ctttgggagt gaaagatggc 180
 caaaagttga tgatgatagg cacggctgat gagattgtga aagctccgga gaaaggtcca 240
 gtgtttgttg aggatctacc agaagaagag caagtgattg cactgggtca cagtgcctgg 300
 ctttataacc ttgggaatac atgctatatg aattccacat tgcaatgtct gcattctgtt 360
 ccagagctga agtcagcgct gctaagctat tcagatactg taagaggtaa tggca 415

<210> 13902

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D5

<400> 13902

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 tagaatacgg tgcagcgagc agcaagtcgc cgagcagccg agccaccgcc gaacacaggg 180
 cgccgccgag cagccgagcc gccgccgagc gccgagtctt ctctgtgtct atggcgtctc 240
 catgcaagta cacactacac tggcaccgcg attgacagtc agaactttga ttgcccgctc 300
 aataggtagc gagtgacttc ggtacagacg acaaactttc tccacacata ccgcgccact 360
 ccgccactca ctgtgctgac ggatgggggtg gtgctccccg tccacttccc ggcagcttc 419

<210> 13903

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D7

<400> 13903

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 gatatttgtt tctggacggc ttgtgtcaga tactgttgat gaggggcctg agaagcggca 180
 tgtttactac aagcttgcag ttcaacagtt gaatttcata gagtccagc cagttcgatt 240
 atatgaacca gaggaagcc aggatgccct aggtggaagg cgtgctgatt attttaactc 300

tatctctaata tcaactgagg ataagaatag ggataatatg agctcatctc gatcaaccga 360
agagctgtgg caagtgttct ttgccaatcc tcttgactgg tgggataaca ggacaaatta 420
gaag 424

<210> 13904

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-D8

<400> 13904

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tggattcctg ttaaggagaa attggttgtc ctcaagaaaa atgcagaacc ttatgtacag 120
aaggatcga caagatcagt ggagttttat gagtcateaa gggatgctgt gacacctcac 180
gttgtcaaag ttaaagagtt tgctcatccc tactaccagg aagccaagaa gttttctaag 240
ccttacattg atcaaattgc tgagatcact aagccacatg ttgagaaagt tagaactact 300
ctgaagccat acactaagag agcagttcat gcgtatgggt catttcttgg gtctgcaacc 360
acataccatc gacaggctca ggcgaccatc atggactacc tncatcagca tggngtacc 420
aagtcatttg caacgaagga gttagttt 448

<210> 13905

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-E1

<400> 13905

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caaagtgcgt ttacggctgc ttttgatttt ggtggaagaa ttcttaaaaa ggtgttcaaa 180
acttggtgat atcacatcaa gcttctatct gccagccatt ctggtctaca tcgaatggct 240
ggcgtcccat ccagagttgg ctattgactc agagatggan gaacagcatg caaatgccag 300

atctttcttt ctggaaccaa tgtatctcat ttatgaataa gttgacctt accaaccttg 360
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<210> 13906
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B3

<400> 13906

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taatccttct taattgcacc actggtggca gctgatgact ttgatcttaa cgatgtgcga 180
cggacagatt gagtttctga tggaattgaa ggccgacaag ctgtggagct tgctgcttca 240
gatccaaaat tatttg 256

<210> 13907
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-B4

<400> 13907

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tcgtgcagtc aaagtgtcaa accatgccg cagtagcggt cgcgtcggct ccggccatat 180
tcgcctccgc ctccgtgcgt ccttgccgca gcgcggctcc gggcatcctt tcttccgact 240
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caccgtcggc ggctggaccc caggccgncc ggtgggcca gaggaccgtg gtcacccgc 360
cacagcgccg cgggtgccac ctcatcacca acaagattgt aaatgagata gggaatgacc 420
t 421

<210> 13908
<211> 242

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-B8

 <400> 13908

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 gcgtgatccc cggcgagcgc gccatccagt gcgcgcaatg caactgcgtg acccgcatcc 180
 ggcgggccga ccgcatcccc gttgcgcggc cggcncacgn gccgncggcg nccagcgcg 240
 cc 242

<210> 13909
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-C1

 <400> 13909

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 acggcgggcg cacgcaccgc acgccggaag acgtgttcg ggatttcgc gcgcgggcg 180
 ctggtatgat caaagcgctc accaccgacg tggagaagtt ctaccagcag tgtgaccag 240
 agaaagagaa tct 253

<210> 13910
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-049-Q1-K1-C2

 <400> 13910

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 tgatctacag gcagggggcc agcaggggca gctagctagc tagccgcgcg ccggcgccat 180

gatgaacctg aacctgaagc agccgctcgt gctgcccgcg caccacagca atgtcgtcgg 240
ctcgcgcctg tcgtcgtcgt cgccctcggc agccgcgcgc agcaggagga ccggcggcgg 300
cgtgtcctcc cggtcgggt cccggcggca cgtgcggctg ccgaggatca gctgcagcgc 360
caccgaggaa gtcagcggcg ccgtgtcgtc cgtcaccgtg gagaggatgc tcacggtgac 420
ggcgtcgggt 429

<210> 13911
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-C3

<400> 13911

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cgatgaacat tctacttgag ctttaagcacc tcaagccctt tagcatccct gcaaggcttg 180
tcatctgtaa aggccttctg atagtgattg gccctatattt ggtgacaacc aatagggtct 240
ccttttcttg gcaatagatt catctgggaa gaaagagttt tacgattcaa cagcccctga 300
ctagcttcca aaaattagac gtgacaagtt ccttgaggtc ccacagatca tatgcggggt 360
gaacaatcaa aagattgcat tcggcagagc atgctagact gcaagattcc tgaacagatc 420
ccttctcatg c 431

<210> 13912
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-C4

<400> 13912

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ggccgcgaag gaagtacaac ttcagggtaa acgctgcaaa ggagctgcat ttcaacaagg 300
atggctcggc tatcaggaaa atgcaaaatg gggtaacaaa gcttgcagat ctcgctcggg 360
ttactcttgg accaaagggg cgaaatgtag tcctcgaaag caagtatggc tcacctaaaa 420
ttgtcaatga tgggtg 436

<210> 13913
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-049-Q1-K1-C5
<400> 13913

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cggcgcgctc ctctcgcg tctctccct cctcgcgctc gcgcactgag gtgccctcgc 120
agtcgcagca gagcacgaca ccgagcccga atcaaccgcc gccgtggccg tcagcgacga 180
caacgtgcta tccgacccca cgggtccacg tgaggcgggc accgccagcg cactgaaga 240
ggaggccatc ccggcggagc agcagcagca tgggttcgaa ctctccgcc tgccgtctca 300
ccggctccac caccaccacc acctctggtg gaagcgccac cacgggatct accgtgacgc 360
gtcgcacaaag ttcccttgtt ctggccacgg cgcgaggcgc gagcaggcag tgagccacct 420
tgccatcttg cccgcatccg c 441

<210> 13914
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-049-Q1-K1-C6
<400> 13914

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gacgaatgct acgcgaggga tcgagaggga cattgctgca ttacagcagg aggagaagaa 180
actcgttgct gaaattaaaa ggacagcaaa aactggcaat gaggcagcaa cgaaaattct 240
agcccgtcag ctgatcaggt taaggcagca gatttctaatt ttgcaaggta gccgagctca 300

gattcggggg attgcgacac atactcaggc aatgcatgcc aacacttcag tggctactgg 360
 tttacaaagt gcgagcaaag caatgggagc tttgaataag caaatggaac ctaccaagca 420
 gatgaaaata atgcaagaat tccaaaagca 450

<210> 13915

<211> 326

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-B11

<400> 13915

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 acttagggaa agctgcattg atcactgtca aaggacttgc agctgggtgca actgtccgat 120
 ctgcagtgga aaatttcctg caggttgata tcgtgccctt tctaggcatc cactcccacg 180
 ccgtcgatgt cagtgaattt attctgttct ccagttgtt gctatcactg tctgttacgt 240
 acgatctcaa atcaaactgt catactgatc aaggcatgta aataacttaa atggttcctg 300
 atcaaacttc aaagggtcaa ggaaat 326

<210> 13916

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H12

<400> 13916

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 ggaggatcaa gatggccctt gatgtggcca aaggatgaa ttgcctgcac actagcatgc 120
 ctacaattgt tcatcgagat ctgaaatctc caaacttgct ggttgacaat aattggaatg 180
 ttaagggttg tgactttgga ctttcgcggt tgaagcacag tacatttttg tcatccaaat 240
 ctacagctgg aacacctgag tggatggcac ctgaggttct gcggaatgaa caatcgaatg 300
 aaaagtgtga tgtttatagc tttggtgtca tcttatggga actggcaaca cttagaatgc 360
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<210> 13917
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-H3

<400> 13917

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 tacctgctgc cgccgcttcc catccgacag attatttgtt tgcagtcact gatcttctcc 180
 ctcgctcagc cgagtgggtct tccactcctc ccagccgagc tctccctctn cacgcagctc 240
 cctcgcggtg ctccctccat agcgcccagc cgctctgtcc tcggatcgga gctttctctg 300
 cgtgtcgc 308

<210> 13918
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H5

<400> 13918

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 tcaactgatct tctccctctc tcacccgagt tcccttccac tcctcccatc cgaactctcc 180
 ctctccactc acctccctca ctgtgtctcc tccatatctc ccaaccactc 230

<210> 13919
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H7

<400> 13919

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accaccaatt tcaaaaactt agtgctttcc aaaagtatth atcaatgggt atcctattgt 180
 gttcaaaagg gggagaaagt agtattttcaa aaatgggtata tcaaaaccct cttgaacact 240
 aagagggtgga tctcttttag ggggagtctt gtttagtcaa aggaagagca tttgaaacag 300
 ggggagaaaa tttcaaactt tgaaaatgct tttgcaaact cttattcatt tacctttgac 360
 tatttgcaaa agatctttga aatggattta caaaaggatt tgcaaaaaca aaacatgt 418

<210> 13920

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H8

<400> 13920

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 gtgcatgggtg ttggccatgg gtcacggcag ggaacagaga cgagcaggte ggcgctctcc 180
 cccagctca ttgatcctgt cctcgctata aggtagtcct gcggtggcct ccgaatttca 240
 ctcgatcgaa cagcatga agcggccacg cggcgccagt cccctctgg ctgcgatgac 300
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<210> 13921

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-A1

<400> 13921

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 tgccgcccgc gagatcaagc aggagtcctt caaggacgac tcccgccggt ccctcctctt 180
 cgagaagtgc ggtctcgcc tccacggcat ggtgtctatc tccgtcaccg gcgccaagta 240
 ctctccaag ctgctaagc ccgacccgc gcagctcggc ttcttctctc tctctgacga 300
 gtcgctcttc gaggccatct acgatcagcc ggcgcccacg gatctgaacc ccaaccgga 360

atcctncccc acgtgcgtcc tcgccagccc ctacgtcagg cctctcttca ctttcgcaga 420
 ggtcgacga 429

<210> 13922
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-A11

<400> 13922

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 aatttgggct ctaaccttgt gggcctgatg gtaaaggatg gacgacaagg aaaggtgaat 180
 gccaaagggt actacattta tgagaagggt gcgaagccaa agccagaccc tagtgттаag 240
 catgtgatcg aggagtaccg aaagcaggca aacacaatgc ctgggtggaaa gcctgttact 300
 ttaatggatc aagatatttt ggagatgatt ttcttcccag ttgtgaatga agcatgcnag 360
 gttatggatg aaaatgttgt aattcgagct tncgatcttg atattgcttc tgttcttgga 420
 atggggctnt cccaaaacaa ggggt 444

<210> 13923
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B1

<400> 13923

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 tgctcggagg gtcaggcatc ctcttttccc tgcattccgc acgattgatg cggtgactta 120
 ctcggaatatt gcaaccgtcc aaatcgaccg ctgcgtactt gatcttgcca ctgagcccaa 180
 tgattctctt attgggggtgg ttgctatgga cgatcaccaa gagcttttct cttctggccg 240
 cttgttcgaa agtggcaagg aagcgaataa cccgatgacg attcaaaacc cgaaggatgc 300
 aggtgaaacc gacgatgacg acgacgacga tggcgactct gatgatgatg ttctccttgc 360

gccggtgctg gaaggggata cagattccga agagattagt agcagcagcg atgatggtga 420
tgaagatggt ggtgacgatg atatccc 447

<210> 13924
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-F2

<400> 13924

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gatgtggctg gaccacctgg tggctcctact ggggctgaat ggggtgcttg aacaacttcc 120
ggctctaacc gtgaatggtg ggatcaaact gggggccctg gtcctgggga atggactggt 180
tctccaaggg tcggctccta ctggttgga atcagcaacc caagcccact gcccaaagct 240
gggaataggc gttgaggcat cactttgaga cgtcttggtgc gggattattc caaagtatga 300
atgcccgaag tcagacgaca tattttt 326

<210> 13925
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-048-Q1-K1-F3

<400> 13925

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cctcaacgtg cgggtcgtgg gcagcggcga ccgctggtg gtgctgtccc acgggttcgg 180
cacggaccag tcggcgtgga gccgcgtgct cccctacctc acccgcgacc accgcgtggt 240
gctctacgac ctgctctgcg ccggcagcgt caaccggag cacttcgact tccgcgcta 300
cgacacgctc gactcgtacg tcgacgacct nctcgccatc ctgcagcgc tccgcacgc 360
gcgctgcgcc ttgctgggcc actccgtctn cgccatgatc 400

<210> 13926
<211> 423

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-F4
 <400> 13926

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gcaactcgcc tgcagggcgt tcggcgtcga cgccggcgcc gccaggatca cgtgctccct  180
gcaggacgtc gccagcaggt gcgtcgacgc cgcaagctc gccggcttcg cgctcgccac  240
ctcggcgctc ctctgtctcg gcgcgagcgc ggagggcacg cccaagaggc tgacctacga  300
cgagatccag agcaaaacgt acatggaggt gaagggcacg ggcacggcga accagtgtcc  360
gaccatcgac ggcggcgctgg agtcgttccc gttcaaagcc ggcaagtacc agatgaagaa  420
gct                                                                    423
  
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<210> 13927
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-F6
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cgggtgccgc cctgtcccgc cgccagaagc agcagcagct gctgctaccg ccgccgccac  180
ccccgccccg acgtcggagc aacaccgggt taaggaggaa ggaaacgctg ccgccgcgac  240
tgtaccgaag caggaggagg ccaagctcca cttgccgcgg gacaacgact cagaagcagt  300
aaccgaagag catggacaaa aaatcaatag atatcaagca atccttgagc cccgtctgaa  360
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<210> 13928
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-F7

<400> 13928

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tgtacaacat cttaagaatg gtgtccttgg ttggtgtcgt ggcttatgtc actgccttct 120
ccttcggtat gggttccatt ccttggatca taatgtctga gatccttccg gtagcatca 180
agtgtgtggc aggaagcttc gcgacccttg ccaactgggt gacgtccttt ggaataacaa 240
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tgagtgcctt gactctcgtc ttctcatcc tttgggtacc agagacgaag ggaagaacct 360
ttgaagagat acagtgggtc ttccagttag ctccggcatt catatgtaca tgcaaatagc 420
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<210> 13929

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-F9

<400> 13929

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cggcggccgg gcgccctttg cctcgtgcc gtcccgcccg tcgtcgcaac tcgctgcag 120
ggcgttcggc gtcgacgccg gcgcgccag gatcacgtgc tccctgcagg acgtcgccag 180
caggtgcgtc gacgccgca agctcgcccg ctctcgctc gccacctcg cgctcctcgt 240
ctcgggcgcg agcgcgagg gcacgccc aa gaggtgacc tacgacgaga tccagagcaa 300
aacgtacatg gaggtgaagg gcacgggcac ggccaaccag tgcccacga tcgacggcgg 360
cgtggagtcg ttcc 374

<210> 13930

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G1

<400> 13930

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tggggggtcc gcccggccg cttaacgggt tgccccggcc cttggggccc caaaccccta 120
accttggtcg gggccggccg gtagccaaag cccccggt 158

<210> 13931
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G10

<400> 13931

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tctttgcaca taccatccat caattatagc tacacaatga gaaaaccag atcttcaacc 180
atataggcta caacaagcaa tcgcagcaag caacatacct gtatcgccct ttagtatca 240
acaatcacac accatatcta ctgggcacgc attggtacaa accatcacgg cacaacagct 300
cgcacaaactc atgtacctg cgatcaac 328

<210> 13932
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G2

<400> 13932

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gaggcgggta ggccgggatg ggggctctgg gtacgctgat gctgtcagag aggatgggaa 300
gggggcgggt ggcgactcgt tgggaaagat ttttgcgga agcgttgctt gggagacaac 360
tgaagaatca ttctccaagc attttgagaa gtatggggca ataactgatt c 411

<210> 13933
<211> 356

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-G3

 <400> 13933

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 gtgcgacgtc gatatcagaa aggatctgta cggtaatgtt gtcctcagtg gtggctccac 300
 tatgttcctt ggtattggtg accgcatgag caaggagatt actgcacttg ccccca 356

<210> 13934
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-G4

 <400> 13934

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 aacctggtga acgcatggaa cacgtggacc agcagcatca ccgcggggag cttctacctc 180
 ggcgctcccag cgtctcccca ggccgcgggc agcgggtaca tcgaccccg caccctgacg 240
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 gctttaacga cgtgcagaac aactacagca gccagggtgaa gggcagcgct tgatgggcat 360
 accgcatacg aagctcaagc tacagcacct agccatgcat atatatatag tggctattcg 420

<210> 13935
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-G5

 <400> 13935

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 caatgctaca atctgagaag aattctgcca agttggaccc gaagttcctt gagttacctg 180
 tattttggac acaatcacgt caataccgtt tgctcaatgc tttccccaat gtattgaatc 240
 tatgcaacaa cagcttgaca ggcataattc cccaagggat tggtcagttg aaagtgtctca 300
 atgtcctcaa ctttagcacc aacagcttat ctggagaaat accacaacaa atttgcaacc 360
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<210> 13936

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G6

<400> 13936

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 gaacgcactt cgagatccgg gtgcagccca acgacacgat tatggctgtg aagaagaata 180
 ttgaagagat acaagggaaa gacagctatc catggggcca acaactgctg attttcaatg 240
 gaaaggtctt gaaagatgaa agtacattgg aagagaataa agtcaatgaa gat 293

<210> 13937

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-G7

<400> 13937

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cgatcagtat ccggcttcag acgtgccgnc gatcggaaag aaaaaga 407

<210> 13938
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-F11

<400> 13938

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tctaactctg ggccgtcacg aagcgcaggt gcaggcccag atgaaggatg ggctaggctg 180
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tgcatttggt acggtagttg tgacgtgagt atgtatgttc gtcagtgtat tccgtacata 360
ataataataa taataatatg ttgcctcttt acctgt 396

<210> 13939
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H1

<400> 13939

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gcagagcatg gtgcgccgcc gtcccaccac ccgcgcgcgg ctcttggcgc cgcagccgc 180
tctcgccctt ccgcgcgcc ggccgcttgc cccggcgctg cccgcgcgc 229

<210> 13940
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-048-Q1-K1-D4

<400> 13940

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ctgagtgatga gtgagtgatc gagctagctg agctccgatc ctgcctagct aggataccgc 120

cataccacaa gtcttcttca caagtttagg agtgacagca acaagagatc gatggcctct 180

gccaccgtgc tcaagtcctn cttccttccc aagaagtccg aatggggcgc caccaggcag 240

gccgncgcgc ccaaggccgc caccgtctcc atggtcgtcc gcgccttcgn ctacgccgat 300

gagctcgtga agaaccgcga aacgatcgcg tcggccgggc cgggcattct ggcatggac 360

gagtccgacg cgacgttgcg ggaagcggct ggcgtncatc gggctggaga aca 413

<210> 13941

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-D5

<400> 13941

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gagatgtgcg agtcgtcgtc cagcagtaga cgtcggcaga tcgataggcc tagtcggcac 180

tggtgcgcaa gatctccggc ctgtccggcg ccacgcgcag cctgtcgtcg ttgagcccgt 240

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<210> 13942

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-D6

<400> 13942

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actggtgttt gcgtcatctc cctgggtgtc gacgaaatga ccatgaagag ttttgcgttg 180

tgtgcagccc cacctgcgac accgtcgacc cccggtgagg ttttgttctc gcctgtcgt 240
 ttttagcgctc gacgtcaatt actattgtgt gtgttgatga gggagttaac cggtaaagaa 300
 gcgaggtccg tgcgacgttt ggcaagtgtt cgatggaagg tccgaaccgg gaacctngcc 360
 tttctcgcgg atcttcgggt c 381

<210> 13943

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-D7

<400> 13943

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 cttcacaagg aggaggaggt ggtccaagga gatgtgcgag tcgtcgtcca tcaggagacg 120
 tctgccgact aggaggccga gtcggcactg gtgcgcaaga tctccggcct ggccgcctac 180
 atcgacatgc taccgtcatt gagcccgctc acggagggtta actcgctctt cacctacctc 240
 ttcacgggct gcataccgtg cagtaccgtg gacgtatagc gtctgggccc ggagctgcag 300
 cacatgcgcg cgggcctcat 320

<210> 13944

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-E1

<400> 13944

agacctctga gggatgaactg cgggccaccg tcacctagag atggatccgc accaagagca 60
 ccaaggggtg gtggtggtgg ggggtggtgt ggcagatgtg tcgattcatg gaacaaggta 120
 tacgtgtgta accttgcttg gtgcagtac aacttgactc tggagaacct attcagttag 180
 caatgactgg tgctggatgc taaggtcatc tacgacaggg atagcggctg gtcaaggggg 240
 tttggtttcg tcacctatgg ctctgccgag gaggtctaca atgccatc aaaccttgat 300
 ggcacgact tggatggtag acagatccga gtcacgggtg cagaatcaaa gccagggcgt 360
 gaattttgag attttggtta cgtggtttt 389

<210> 13945
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-E10

 <400> 13945

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 gctgggacga ggaacgctcc tcacccatgc catcccagac cagaagcacg ccatcgagga 120
 ggagaacctc cccgagtgcg cgctctacat gcacatccat cgaccaata tcaatcagca 180
 ggctctatga cctggacctc gtcgacgga acacaagatg ctgcgcaacc acgccttcag 240
 ttatccatgt cgt 253

<210> 13946
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-E12

 <400> 13946

 gtccgcggac gcgggcggtg aagcaaaaac cttcagggtta gctagctagc cacgcgcacg 60
 cggatcagca gatgaagctg ttcgccttcg tgaggcgcg cgcgcggccg ccgccgacgg 120
 cgcccgacga cgacacagcc acagccgccg ccgctgcgac cacggagaag cggcgccgga 180
 ggctgtcttc gtcttcgtcg tcggggtcgg cgtggaagcc gacgctgggc gccatctccg 240
 aggacgcgcg catgacgtcc gcgcccgtgg cgcgtgcgaa ggcagcagct gcgccggcca 300
 gggccaagga gaggtcgctt cgccgtgcca cccggggcgg cggctacgac gacttcgggc 360
 actacggcca cccgacggtg ctgccggcct tcacgccgac ggcgttcctg ttctgagcgg 420
 tggcg 425

<210> 13947
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-E3

<400> 13947

tctcaatcgg aggtcttcctt cagggttcct agctactgac ttacgtaacc tctacaccat 60
aaaactggat tcggctgacg gctaacgcag agggccatct ccatactaga cggctctacag 120
cgactcggac catggaccgc acggtcttaa ccgatgcctc tcgggtccaaa ctggatcacc 180
actcaggcgt atcttgact gacgtcgtga ttgacaacga cacctgccta taccggccta 240
tggacctaaa aatcga 256

<210> 13948

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-E4

<400> 13948

cgcgctccgca gatctccagc tagcttcctt gctacttact cccctaccg ctgcaccctc 60
gccatggatc cgccgagctc cgatatcgta gtcgacactc catacttccg catctacagt 120
gaccggcgca tcgaccgctt ggtcggcacc gataccgtgc cggcgggctt tgatcccacc 180
accggcgtca cctccaaaga cgtcgttgta gacagcgacg ccggcgtcta cgttcgcttg 240
tacctnccgg acacggctac ggggtccgat gattccaaga agcttccggg gctagtct 298

<210> 13949

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-E5

<400> 13949

gctcattgca actgctagca ccaagggtaa cacttggttag aatctacaat gcagctgagg 60
gcaatctctt gcaggaagta aggagaggtg ctgatagagc agaaatatat agcttggctt 120
tctcgaatth gcagtatttg gctgtgtcca gtgataaagg aacaatacat gtcttcaatc 180
taaagataaa tgtgggatcg actgcaaatg ataaacctat acctgctcca gatcctgaag 240
tttcgcatat aagccccct ctttcgttca ttaagggtgt gttgccgaaa tatttccact 300
ctgagtggtc agtagctcag ttcaggctcc atgaggggga gcagtacatt gttgcatttg 360

gacatgagaa gaataccgtg tcagttgttg gtatggatgg aagcttctac agatgtcaat 420
 tt 422

<210> 13950
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-E6

<400> 13950

gtccaagcac atcgacacac acgagcacag aagagaaacg ggcacacgca actgatcaag 60
 gcaaccaata ttcaccgtcg gcaatgggcg acctgatccc tgggctgccg gatgaagtgg 120
 ccagggagtg cctcgcccg gtgggcttcg accagctgcc ggtggcgccg cgcattctcg 180
 gccagtggaa gtcggaggtg gagtcgccg actaccaccg ncagcgccg gcggaggggc 240
 tggcgcgccc ggtgctcgcg ctggtccagg cgcagncgac aggngccgcc ggatgacgac 300
 gacgacgccg gccccgggca caagcgctcg acggcgggca actcgtaccg gctgggtgctg 360
 ctggaaccg 369

<210> 13951
 <211> 111
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-E7

<400> 13951

gactagggtc aatgatgaat cgatcgaatt cgcttgggtt agctttatta ttgttgccgc 60
 tattattaat tcgactcgct atagtgtgta aaaaatgata cagaaccaac t 111

<210> 13952
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-D3

<400> 13952

gaccagcaaa gtgagtgtga tcgatcacac actgcacaca ctgccatgac cgtcgtgggc 60
aaggaggacg agcaggagcg gcagcagcac aaggaggagg aggtggtcca aggagatgtg 120
cgagtcgtcg tccagcagga gacgtcggcg gacgaggagg ccgagtcggc actggtgcgc 180
aagatctccg gcctggccgc cgccatcgcc aggetgccgt cgctgagccc gtcgccggag 240
gtgaacgcgc tcttcaccga cctcgtcacg gcctgcatcc cgcgacgac cgtggacgtg 300
gagcgcttgg gcccgagct gcagcgcatg cgcgcggggc tcatcccgt ctgcgccgac 360
gccgaggcgc tgctggaggc gcacta 386

<210> 13953
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-048-Q1-K1-E9
<400> 13953

agaccaacgg gcaacataga aagtggatc cattatcaac aatagagcaa caatggggac 60
cgggatattt tccctcctta tgctccttgc tctttctaca tgtgttgcta acgcgacaat 120
tttccctcaa tgctcacaag ctccatagc ttcccttctt ccccatacc ttccatcaat 180
tatagcttca atatgtgaaa acccagctct tcaaccatat aggcttcaac aagcaatcgc 240
agcaagcaac atacctttat cgcccttggt gtttcaacaa tcgccagtcc taactttggt 300
gcagtcattg gtacaaccat cagggcacaa cagctgcagc aactcgtgct acctctgac 360
aaccaagtag ctct 374

<210> 13954
<211> 304
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-048-Q1-K1-F1
<400> 13954

cgtccggggc cagcagcaag ggcggcggcg acgccgaccc cgaccccgat ccggcgggca 60
ccgtggagct ggacctctcg gcgctgccgg gcggcgccga cgcgttcgac aaggcggcgc 120
gctactgcta cggcgccaac ttcgagatca cgccgcggcg agccggccgt gctggccgcg 180

gcggcgccggg cctacgcgga gctcgtcctg gccgaggtcc tcgcggcgcc ccaggaccgc 240
gcggaccacc gcgcgctgct cgagtcctgtg gtcgacgtgc tgccctcgcc cgccgacgcg 300
cccg 304

<210> 13955
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-048-Q1-K1-F10
<400> 13955

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tgggggcgctc cttcatcccc ttctttgggt ccttcatctc gttcgtcggg agcaccatgt 120
gcgcgcttct ctcctttgtg ctgccggctc tcttccatct cagcattgta ggctcgtcaa 180
tacccttgtg gagggcgggtg ctggactacg gcattccttct ctttgggtctg gctttcgctg 240
gatatgggtct tgtcactgct ctctcctcgc attgaacaat ggcccaaaca gtcaaaaaag 300
tgcagagatc acgatatctt gtgatgacag gagtcaaagt gatgctagga gcaccatata 360
tcanatagcc cggctcggat tagtgcgta ttgaactgat ccgcttcaac ccatatagc 419

<210> 13956
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-048-Q1-K1-B4
<400> 13956

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atatttggct ggtgtattcc tgaagatttg atggccaagt tctctgaaat caaacaggct 120
aggctgctga cagctgagtt ttagttcac cctcaggccg gctacaatac attggaggac 180
ttttgggatg gtgaaatata aaagcataca aatttgttca gaataaaaga gccaggcgag 240
gaaacaacca caaaaaaggg gagatcgaat gcataggccc cagtacgatg aatttggggg 300
tttacgtgat tgctgaacac aagtattgtg tgactaatct gtgttttgat gtggtaaatg 360
taaattgggtt agtcacaata agagataagt gtctttgccca caagactttt ggtcactaga 420

tatgggcccg tgcg

434

<210> 13957

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B5

<400> 13957

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acaagggcca taccgtcgcc gtcaagatca tgctccaaag ctaagatgac aacggccatt 120
tccattgaag atgttcgtag ggaggccaag attttgaaag ccctatcagg gcacgatgat 180
ctcgtcagat tctatgatgc atgtgaggac gccctcaatg tctacattgt catggaatta 240
tgtgaagggtg gagagttgct agacagaatc ttagcacgag gtgggagata tacagaagaa 300
gatgccaaag cgatcattgt acagattatg agcgtagtgg ctttctgtca tcttcaggga 360
gtagcgcatac gtgacttgaa gccagagaat tttctgttca caacacgaga tg 412

<210> 13958

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B6

<400> 13958

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accggtcca gcctaaaacc tcctctacca ccaccagcc tcacacgcct tgggtcttctg 120
ctccctaacc gcacccttcc aatgacagtg ctctagccaa tccgcgatac ctccctgcat 180
cttcaccggt cgtcacccta accgcgccct tccaacgact aggtcgctac 230

<210> 13959

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-B7

<400> 13959

agagagctga caaaaatcga ctggccatca atggctctgg cgccggcgcc tctccagtgc 60

ttcttggaac ggcagcagca gaccggtgtg caccggtcacg gcgacgccgc ccaagcacgc 120

gaggaggccg tgcaggatct cgtgcagggc gtccggcgat gacaaggaca aggtcccgtc 180

gggagggaac gatcttgggg tcaagcagct cgggaagctg gccatggtcg cgctggccgc 240

cggcgtgctg gcgctcggcc ccgtcgacgg cgccgttgcg gccaaagtcg gcggcagggc 300

cggcgggcag gcgttccggt ccgcgccccg gtcgttcggc cctcgatca acaactncag 360

gacgaacatc tacatcaacc cgcggtg 388

<210> 13960

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B8

<400> 13960

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gcaggctatt cttaatcaga agggggatgt tcaatacttc attgggggtc aattggatgg 120

aactgagcgt gttcgatagg ctgctgcaaa agatgggtgcc atactgggta agaaaactgc 180

acacaatatt gatgaggctg caaaggagct tcctgatgct aatttgagac ctgaggatct 240

atgggctaata cactcaaaac cagtcttgcc aaatccacat atgaacgata ctgcatcctg 300

gagagccatc caaaagggtc ttgaaaacgg ttaaagcatt tatttgaaac atttcataac 360

cattaagcct tt 372

<210> 13961

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-B9

<400> 13961

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cacggcgctc ccaggaatg ggcagcgggc gtcgtcctcc ttctcggcg gcaagacgct 120

gctgagacag gccgaggcgg cccggccgtc gttegccgtg cgcgccgcgg cggaccccaa 180
caggccgatac tggttccccg gcagcacccc tccgccgtgg ctcgacggca gccttccccg 240
cgacttcggc tttgatccct ggggcctcgg atctgacccg gagagcctgc ggtggaacgt 300
gcaggcggag ctggtgcaact gccggtgggc gatgctcggc gcggcgggca tcttcatccc 360
ggagtctctg accaagatcg gcgtcctcaa caccgncctc tggtaacacc ncggcgagc 419

<210> 13962
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C1

<400> 13962
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ggttcggggg ttgcgatggc ggcggcggcg agacagcggg ggacgggtgaa gtggttcaac 120
gacaccaagg gcttcggggt catctacccc gaggacggct gcgaagatct cttcgtgcac 180
cagtcgtcga tcaagtcgga cggctatcgc tcgctcgcgg agggcgagg 229

<210> 13963
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C10

<400> 13963
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ccgtgttcct gcaacaaccg tcagccctat tacagcagtt acctttggtg catttggtg 120
cacaaaacat caaggcacia caactacaac aacttggtgct aggaaacctt gctgcctact 180
ctcagcaaca gcagtttctt ccattcaacc aactggctgc attgaactct gctgcttatt 240
tgcaacaaca actaccattc agtcagctag ctgctgccta cccccagcaa tttcttccat 300
tcaaccaact ggcagcattg aactctgctg cttatttaca acagcaacag ctaccaccat 360
tcagccagct agctgatgtg agcccttggt ccttcttgac acatcaacag ttgttgccgt 420
t 421

<210> 13964
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-C11

<400> 13964

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 aatgatggca tgctttcttt gagagagttt tgcacgctc tttatttaat ggagaggcac 120
 cgagctggaa ttcctcttcc cctagccctt cctgactctc ttaggcatga tgagacactg 180
 ttacgagcta caggcttgcc ttcaacagca tacaatagtc catcatggca acacaatcaa 240
 ggaggattac cacaagagg ccttgagca cctgnggtgc ctgctggtgg tgtgcggcc 300
 cccttgccat cacatttgca ttcacaaact gacggagcta gcagaccagg gcaaccaaga 360
 tctcacatgc ctgggatgga taatcatgtg gtaattca 398

<210> 13965
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-C2

<400> 13965

 cgcgccgta gataaccaa cagaagttac tgttcagctg ataaattata caaagagcgg 60
 taagaaattc tggaacctct ttcacttgca gcctatgcgt gatcagaagg gtgatgttca 120
 atacttcatt ggggttcaat tggatggaac tgagcgtgtt cgagaggctg ctgcaaaaga 180
 tggtgccata ctggttaaga aaactgcaga caatattgat gaggctgcaa aagagcttgc 240
 ggatgctaatt ttgagacctg aggatctatg ggctaatac tcaaaaccag tcttgccaaa 300
 gccacatatg aaggatactg catcgtggag 330

<210> 13966
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C3

<400> 13966

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gtgatgacct tctccacag ccaccaagtc tgctctgtcc agagaatcaa gtgccagtgg 120
tgaccatgct cacaattctt taccacacca tagccagaac attctagga gttgctggcc 180
tatatgaagc ttgttcata atcatctcag aaaacggaga agagggtgaa gtgactgaag 240
aaaagacatc accacctttg gaatctcagg cagagacttg gctctacttc gacatctgcg 300
agtccgagcc tgactcacct acta 324

<210> 13967

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C4

<400> 13967

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cctcgccgcc gtctccgtga agcccggtgc catcaagggt ctgcgccgca gctccatctc 120
cggaaggaag ctgcgccgtc ccaggccgtc ggcccgtctc atccgcaggc cccgcgcagc 180
cgccgtgggtg gccaaagtac ggcacaagag cgtctacttt gacctcgacg acatcggcaa 240
caccacogga cagtgggacc tctacggctc tgacgcgccc tcgccctaca acccgctaca 300
gagcaagttc ttcgagacgt tcgcggctcc gttcaccaag agaggtctgc tgctcaagtt 360
cctgctgctg ggccggcggt cacttctggc ctacgtc 397

<210> 13968

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C5

<400> 13968

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tagtgataca tggacaactg attggactga tggacttacc agtcttgatc gttacaaagg 120

acgatgctat cacatcgagc ccgttcctgg ggacccagat caatatatct gttatgtagc 180
 ttatacatta gacctatttg aagaggggttc tgttactaac atgtttactt ccattgtggg 240
 taacgtatatt ggtttcaaag ccttacgcgc tctacgttag gaggatctac gaattccccc 300
 tgcttaatca aaaactttcc aagggtccgcc tcacggtatc caagttgaaa gggataagtt 360
 gaacaagt 368

<210> 13969

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C6

<400> 13969

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 tcagagccaa gcccaacatc tcagacgctg aagagaaaga catgctggac tacctataca 120
 catcgcagta ccagatgcga gggatactcg cgggtctcgct aggccgcacg gaggacccca 180
 acagcgacaa cttcacgcac gctgtgttca tgcgtttcca gcagaagcaa gacatcgcg 240
 agttccagag taacgcgtac tactccaaag ttgtcgacga gcacgtaaag cccgtttcct 300
 atggctcggg ttctgtagat ttcgagtcgg aggtggaaga cgacattata cctctctttc 360
 gcaggggaga ggattttaac tacggcgctg agtttatgct gctggtgtct ttcttg 416

<210> 13970

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-C7

<400> 13970

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 caccgtccca gagacgacag ggagtatggg catgaagcgg taccggttcc acttccacca 120
 ccacgacgac gaggacgagg agaagaatat ggctgcgagg gaagcgggtc tgcaagctga 180
 tgaaca 186

<210> 13971

<211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-C9

 <400> 13971

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 cgctgtcttg cctcctcttc ggctgaagaa gaagaagaag aaaacatgtg tccgggatcc 120
 gtggagtcgt cgtcggcggc ggcggcgggc aagagcgtgt gcgtgatgga cgccgcgggg 180
 ccgctgggcc acgcgctcgt ggaccgcctc ctccggcgcg ggtacacgt ccacgcgcgc 240
 acgtacgcc ggcaccggga aggaggcgct gccnnngct ggcacggccg acagccggct 300
 gccggtggag gacgagcggg tgct 324

<210> 13972
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-048-Q1-K1-B2

 <400> 13972

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 ccaaaaacgt ccacgcgggc cgattccac cgctctgta gccggcatca gcggcccaaa 120
 ctgcccggc ctggaatcct gcaccgcgtc gcgccgaaaa cttatcggc cggcaacaag 180
 ccggacaagc cttgggcttc gtcggcctaa ccggaccctt tcaatgaccg ggcgctagcc 240
 aaaccggca atcttcct 258

<210> 13973
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-D2

 <400> 13973

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ctttggtcga gtgagtaacg cgcagcgact cctctcccaa ccagattttg atggatttcg 120
ggcacgcgtg gcacaggcac ggatatgtta gcggatcggg cggccggatc accgncggct 180
tgctccctct cctcatgatt gggcgcgctc atatccctct tttttttttc tgcgcacgga 240
gactagggtg gctcttcg 258

<210> 13974
<211> 389
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-047-Q1-K1-H4
<400> 13974

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cgtgctcgtg taaccgccgc agcaccggcg ccttcgcgtt cccgaacca ccgcgcttcc 120
catgcctgcg ttctgcgcgt cgactcgtcc ttgcgagggc ggccggcagcg ccggcgccgg 180
gcgatggccc cgaggacgag tggggggccgg agcccgaggg cgggtccgct gtcacggggg 240
ccgcggtggc ggaggcggcg gaggcgagag aggtcgcgga gctcaaggcg cagctaaagg 300
acgcgctgta cggcacggag cggcgcctgc gggcgctcag cgagtcgcgg gccaaagtgc 360
tggagctcat cacgcagctc gagacgcgc 389

<210> 13975
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-047-Q1-K1-H5
<400> 13975

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ccatggcgct gccgtcgtcc tcgaccccca ccgcgtcggc tccggcctcc ctcggcgagc 120
ggtggccgcc gctggagtct acccccgag ttttcaacca gttcgtgtgg tcgctaggtg 180
tcccagagga cgacgtggag ttccacgacg tgtacgggct cgacgcgac gcgttgata 240
tggttcccca gcctgtgctc gccgttgctc tctgcttccc cgatccacca caggatgcaa 300
gttacccttc agaacaactc ttaatttctg gagaaaagga aacacaggac caggtttact 360

ttataaaaaca gatcgaatca ttgggaaatg cttgtggaac tattgctcta ctccatgctg 420
 ttggaaatgc atc 433

<210> 13976
 <211> 240
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-H7
 <400> 13976

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 ctaacaaaaa tcgcatctc tggatgtggt attctacagg gtaggggttc caggttgact 120
 caccagttaa aacatgcatt tctggttgta taacaagcaa tgaaccccggt atatatactt 180
 gacagtttga ctcctttgga gggttgattt ttaattttgg ataagacatt ggtactcttt 240

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 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-A10
 <400> 13977

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 gggaataaac gattatttat cttacaataa accttaaac gaattattcc tatcaaccac 120
 ttctctcatt aatctataaa ctcaagatac tacagacaca aagaatagat tatagtcaga 180
 cagatgctca atatcacatg catgttcaca agatatagac actcatgact gtaatgccta 240
 ctctttatat acaccacagt aatgatagtt gcacaactct tattgatata catatgaaga 300
 actttaatgt cactgtattc tcctatggat ctaatt 336

<210> 13978
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-A11
 <400> 13978

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 cgtgcctctc tccgcaaggc cactgccacc gccgccgtgg ccgttgccgc cagcgtcctg 180
 cttgccggcg gcggcgccat ggcccaggag gtgctgctgg gcgcaggcga cggcgggctc 240
 gtcttcgagc ccagccagtt caccgtcaag gccggcgaca ccatcacctt caagaacaac 300
 gccggcttcc cgcacaacgt cgtgttcgac gaagacgagg tgccgagcgg cgtcgacgcc 360
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<210> 13979

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A2

<400> 13979

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 gcgggtggcgt cggcggggct cgggatgctg gcggggcgtgg ccatggccaa caggctcgtc 180
 tcgtccgacg gcgccgcgca gtggaaggcc cgggggtccc ggcgctgcgg tgggggcggc 240
 ggaggcgctt ccgcgtcgc aggcatgcgg cgggtcgggg caaggaggag tgccgcctgt 300
 gcgcgcgctg gtccgacgcc ggggcccggg gaaaggagca gagccgggtc gggttccggg 360
 gcgtgcgcgg gcacgcg 377

<210> 13980

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-048-Q1-K1-A4

<400> 13980

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 ccttcgcaac tgggcctcca agcccctgcg cccctcggtc tggctcggcg tggcgcctg 180

tgtttcacag aatcgcgacc gccgtggcca cgtgaccagg ttctccgnct tcggctcgag 240
 cggcagtgac gagcccgng agctgtccga ggatgaag 278

<210> 13981
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A5

<400> 13981

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 aggaataata ttggctgcgt caccaggggc gagcctctct gttccggtga ccacgacgac 180
 cttcgcggcg gcagcggccg cggccggcgc cgacttgctg atcgctcgtgc cgagtgcgac 240
 atgcgctgct cgcggtatgg ttccccctg ctgatgcgca gcgcgacgat gcagcacac 299

<210> 13982
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-A6

<400> 13982

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 gctccgtcgg ctctctgcc aggtctgccg ccgccgtgca gtacgacctg ctccgccccg 180
 gctccgatgc gtgggcccac cccgacggca tggtcaccgc ggaggggtgac gaggagaaac 240
 agcgctatga cacggagggg gagtccaacg actgggaagg ggaagggccc caaggatcat 300
 cagaccccgga gggcatcaac gtgccgcgcc agcgctacat cgccgtcccc aaggaggccc 360
 tnctcgatgc t 371

<210> 13983
 <211> 344
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A7

<400> 13983

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cggcttgcoct tgcgtacgct ctactatcca gaagcagctc ttgcctcgct cacttaccga 180

attatagcoct gatgtctcat gagagcaggt gccgatctaa gctcatacgc tgtgatggcc 240

tgaactctcg agaccggata ctgatgccct gaggctaaca atgatagttg ttcgtacggg 300

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<210> 13984

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B1

<400> 13984

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tttacaagac gttccacagc tagaattgcg acaagtcatt tacatagaag gtggcctcac 120

tggcgtagcg catatgcagc gatgtacgct ctcaatgctc acgtccgaaa ctataatgcg 180

tgtaatgacg agatctgggg ctacactgtg ctggtacact gtgatggccc gaacgcacga 240

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cttatcaggg gctcggagac tac 323

<210> 13985

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-B10

<400> 13985

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tttcatacgt gcaaacta tcctgggtaa aggtcaactg atgatgtcaa cagagaatgg 120

cgggataaag gtaaatggac agctgccgac aagcgacagc tctgtgtatg ccagagtcga 180
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 ctcagctcgt agaactggta gacatgctgt tgcctccatc ttggatcctt caaagaccac 300
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<210> 13986
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-H3

 <400> 13986

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 ccagcacggt ttcccccttg tcaaaagcgt aaccggcagc aagatcctcc gaatcctcaa 180
 ggcccatggg ctggcaccag aaatccccga ggacctgtac ttcctcatca agaaggcggg 240
 ggcgataagg aagcaccttg agaggaacag gaaggacaaa gactctaaat tcagggtcat 300
 tcttgtggag agcaggatcc accgncttgc ccgctactac aagcgcacaa agaagcttnc 360
 acccacctgg aagtatgagt caaccacagc gagcactctg gtggcctaag tgtgg 415

<210> 13987
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-F9

 <400> 13987

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 tactggaagg gcaacggccg gccgggaaag gca 93

<210> 13988
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-G11

<400> 13988

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ggcccatcct gccagtgcg gcttcatggc gctctgtgga tggggctcca ctctggaggt 180

tggtgcagcc ggtcttccca tggtgcctg gccctttttc gccgaacaat ttatcaacga 240

gcagctcatc atggacgtgc ttggtattgg attgtctgtc gctgtgatga agccaattga 300

aaatgttttg attgccagta acatgggtgg tgctgtgtg atgatatatg ctctgtttt 360

ttggtcttgc ctgacaagct tcacacttgg aatccatggc cagatagt 408

<210> 13989

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-G2

<400> 13989

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aaggaaatcc gtcaggtggt cgacggggac cagccggcgg cggagacaac ggccgaggcg 180

gtgaaccggc acctggacat actgcgcca gcgatcgca actacggcgg gagcgtggat 240

gtgttgccg tcgatggcga ggactgcctg gtgaggtacg acgggcccga atccatcggc 300

agcggatatca aggcggccat caaggagaaa ttcccggaca tcaccagtgt ggtgtttacc 360

ctgtaaaaca ccgactgggg ctatgcatat tcggggcagt ccacagcana tgaacatgct 420

gatcgaactt cata 434

<210> 13990

<211> 273

<212> DNA

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<223> Clone ID: LIB3060-047-Q1-K1-G3

<400> 13990

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 aataatatat tgctacgata aattactcaa tcagaacttc ccctactctt tcaacaaatt 120
 catatcctta ttcaacccat acccatcctt acaatctaca acccccttag ttcttacttc 180
 atcaccttta catacttcat cctgctatct aaaaacacta ctcaatcatt tcttattcta 240
 ccattctaag ttaccaactc caacataata cac 273

<210> 13991
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-G4
 <400> 13991

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 gccctgttca gcgccatgct gtggatcttc tacgcgtga tcaagtccaa cgagacgttc 360
 ctcatcacca tcaacgcggc cggctgcgtg atcgagaccg tctacgtggt catgtacttc 420
 gtctacgcg 429

<210> 13992
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-G6
 <400> 13992

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 aacgggatcc cgatgcccggt ggccgctcgt gttctcgccg cagcggcggt ctgcggcccg 180
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cccgcactgc gcccgcgggc gcccgctcct cctctccggg cctcctccgt tccccgcgat 300
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tgtgtgaagg cggagtccac ggagcgggag gcgctcgatc gggatgctct gaagcgggtg 420
gcgctactcg c 431

<210> 13993
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-047-Q1-K1-G7
<400> 13993

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tgggcatggt gacgggcggc gcgcccgtgg ggtctgactc cggcaagggtg ccccggtcgc 180
gcgtgctccc gaagtacgcc acggacgagt cggagatgag gtgggttcgag gtgccggggt 240
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tggcccctaa cgtcctgtcc gtggagcacg cgctggagcg catggagctc gtgcactcct 360
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cggg 424

<210> 13994
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-047-Q1-K1-G8
<400> 13994

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tcgtcgggag ggagcgatcg tggggtcaag cagctcggga agctggccat ggtcgcgctg 120
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agggtcggcg ggcaggcgtt ccggtccgcg ccccggtcgt ccggccctcg gatcaacaac 240
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gggagcccgt tcttcggcgg ctacggctac ggctggtcgc cgttcagctt cttegccecc 360
 gggccgagcg tcgccgtcgg ggctggcggc ggcttcgaca cgctcgctct cttcttggtg 420
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<210> 13995
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-G9
 <400> 13995

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 gccaaaggacg aggtgttctg cctgttcgaa ggggtgctgg acaacctgng tcggctgagc 360
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<210> 13996
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-H11
 <400> 13996

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 tctgtgttct cgaccttgcc ctatcgccga accccagcgc catcgacctt cagctccgtg 240
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 gttgggctcg ccagccctt gtgtcctaac cgcgccagtc cagttcgtg gtcattgttca 360
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<210> 13997
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-H12

 <400> 13997

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 gaacaccctt tgtctcgctc ctgctttatc tatgcaactg ctggcatgca tgcaaaagac 180
 gcctcgggag ataagacccc tgttattctg ctagtacgta tgcattgcatg tgcacgatcg 240
 atgggcgaga tggatcatatc at 262

<210> 13998
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-F8

 <400> 13998

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 tcgaccagct gccgggtggtg cgccgcatct cgcgccagtg gaagtcggag gtggagtcgc 180
 cggactacca ccgccagcgc cgggaggagg ggctggcgcg cccgggtgctc gcgctggtcc 240
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 cgacggcggc caactcgtag cggtggtgct tgctggaacc ggccgagggga cgggtggacgc 360
 cgctgccgcc cccgctggg ccaagccaga gcct 394

<210> 13999
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-H2

 <400> 13999

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cgatgcgcaa gacggcggcg aaggcaaagc cggcggcgag ctccggcagc ccgtggtacg 180
gccccgaccg cgtgctctac ctgggcccgc tgtccggcgc gccccgagc tacctgacgg 240
gcgagtcccc gggcgactac ggctgggata ccgcggggct gtcggcggac ccggagacgt 300
tcgccaagaa ccgggagctg gaggtcatcc actcccgtg ggccatgctg ggcgcgttgg 360
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<210> 14000

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E2

<400> 14000

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agcgcaagta ccgtgccgag ccaccttcca ccgagttggg ccatacggg ctggagtacc 360
cgctgacggc ggactgcatg ggattcgagt ttatgtcgcc tgagaaggct gccatggcag 420
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<210> 14001

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E4

<400> 14001

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tccacattat actacttttt cacttataac tctaaat

157

<210> 14002

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E6

<400> 14002

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catgtgctag ggtgtatact atcaacccca aaaaacccaa ctctgcctta cgtaaagttg 120

ccagagtacg attaacctct ggatttgaaa tcactgctta tatacctggg attggccata 180

atttacaaga acattctgta gtattagtaa gaggaggaag ggtaaggat ttacccggtg 240

tgagatatcg cattattcga ggaaccctag atgctgtcgc agtaaagaat cgtcaacaag 300

ggcgttctaa atatggggcc aaaaagccaa aaaaataagt gattcgtttt tagcccttat 360

aaaaagaaaa cggattcttg aacctctttc acgctcatgt cacgtcgagg tactgcaga 419

<210> 14003

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F1

<400> 14003

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acagcagtag tttagcctcc tccatcagtg gctctccaag gaggaaccca aagggccac 120

tggaagctct aatgctaaaa aacgctggag atggtacagc cataacaaca tacggaaga 180

gggatcccaa tgatgtcttg gatgacgaaa atgtcgcgtc ctattccaa ttgatgtcca 240

agacagttga aggttttgct gatgagaagt atcctgctta caaagatagg caaaaacttg 300

caactgaacg ggagaaggct ataaaagaga aggctgggca agcaagagca caaaggtttg 360

gtgggtggcca cagttcagct ctaatttctt ctccaaaaag tgcactccct caaaaacttg 420

ctcaaatta 429

<210> 14004
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-F11

 <400> 14004

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 ccgtgcggga tctgcgggca ctaccacaag tacgaggagg gggaggtatg cggggtgtgc 180
 ggccaccgct ggaaaccgtc ggacgggtgag ggcgccccgt cgaggcacga gtccgtctta 240
 cccacagagg tgctcaagga ctctctcttc ctccgggagct acgacaacgc ctcacgtccc 300
 gaggtcctca tgacgtcag tatctccac atccttaatg tacgtattta agccctcttg 360
 tctagatgat gcacatccta ttccttgttt gtgatcatta aattcggcgt ct 412

<210> 14005
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-F3

 <400> 14005

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 gacgtgaagg gtgncaacat cctgctagac gactgctgcg aggccattgt cggtgacttc 120
 gggctcgcta aactcctcga ccacggggac tcccatgtca ccactgcggt gcggggcact 180
 gtcggccaca tcgcggccga gtacctctcc actggccagt cgtcggagaa gaccgacgtc 240
 ttcgggttcg gcacccctgct gctggagctc gtcaccggtc agacggcgct ggagtttggg 300
 aagacggcaa accagaaagg agccatgctg gactgggtga agaagacgca ccaggagaag 360
 aagctggacg tgctgggtgga ccaggggctg aggggcggct acgacaagat ggagctagag 420
 gagatggtgc gagtagcgct gc 442

<210> 14006
 <211> 432
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F5

<400> 14006

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caaaatagtg agagcccaaa ggcaaacagt gatggccagt ctgacacctc ctcagagggt 120
gtggactcaa acaataatac tgcagtttat gctgatctaa acaagtctcc tgaaagtgat 180
tttgagtact gtgaaaatcc tgagatcctt gattcaaata aagcttctca tcaccccgagt 240
gaacgtatta atgacttgca aaatatacag atggctgcag atggggtaac agaagtcaca 300
gagctggaag aagcacctgg gctctcagcc tcagccttgg atgaggaacc caatgcttgt 360
gttcaaacag tgcttctcag ggattcaaac ccactagaac acaatcagag aactgtggtt 420
cctagatcac at 432

<210> 14007

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F6

<400> 14007

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tcgtcccggt ccggccgcct ggccgcgttc tgcgccaacg ccaccacctc tggccgcgtc 120
accatgtccg cggagtggat gcccgccag ccacgccctg cccacctcga cggctcctct 180
cccggggact tcggttcga tccgtgggc ctgcgcaccg tgccggagaa cttcgagcgg 240
ttcaaggagt cagaggtgta cactgcccg tgggccatgc ttgccgtccc cgggatcctg 300
gtgccggaag ctctgggcct gggcaactgg gtgaaggcgc aggagtgggc ggccgtcccc 360
ggcgggcagg ccacgtacct gggcgccccg gtgccgtggg gcacgctgcc gaccattctg 420
gtgatcg 427

<210> 14008

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-047-Q1-K1-F7

<400> 14008

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gaattatgct gctttccaga acagtcttta tgacttggct aatgttgtgc caacgcttgc 120
aaagttctac catcaagcca gtgaatcata tgaactagct tgcactcgcc atatcagctc 180
actcatttat ctgcaatttg agagggttatt tcaattcaac cggaaagttg acgaattgac 240
ttacactatt gctgctgagg agataccgtt tcagctggga ttatcaaaaa ctgacctaaag 300
gaggggtactg aaatccagct tatctgggat tgataagtca attagcgcta tgtacaggag 360
gttgcaaaag aactgacct ncgacgagtt gtttccttcg ctgtgggaca agtgcaagaa 420
ggagtttttg ga 432

<210> 14009
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C7

<400> 14009

agaccgcagc cgctaccgga accttattga tgttcaacac gctgacatca tagagcgggg 60
gccagtcttc cttctcagct aacaaacagg cagcctactt taggtctcgt agagcaggga 120
tgtcatcgaa catgcaaggg aacaccatct ctccagtaaa gtacacagct cggccttctt 180
ctgtagctct aataggggtca aacaaactcc catattcgcc atgaatcttt tcagcagacc 240
attttgatga agagccctca cagtagatag actcgtgcaa gagggcataa agaggatttt 300
gatcaaactc agccacattt cgaactcttt taagaagtaa tagcttatcc tctgttttagc 360
ttcaacgacg agtacaagat tatccacacc gttgactcca tcatatcttt cgcaaattaa 420
atctactgc 429

<210> 14010
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-D1

<400> 14010

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gagcaaccgg gcacgcccgc cgccgtccta ctcccacctg ccccgctctt cgttgccggc 120
gacgagcacc cactacacca gattaacatc ctataccatg gcctatctgc cttgttcaca 180
aataaagtta agcaaagtac ttgtcaggag gaagtttcat gagagtggac agaccaattt 240
gccaaagtcct cttcactgga aacccttgcg accaggctgt ttgaaaatc ttgtgctgcg 300
atgcaccaag aatttgtcat gggaaacatc tcttccatat gcctctgcag aggatgatgc 360
cagtatcatc aagggaacaa gtgttggtga acctattgat acagaagaag ctccacagat 420
tccaatcctn cagagtgatg aagatg 446

<210> 14011

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D10

<400> 14011

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agtcttcttg gtcacgttgt tgattgcagc ggctcgagcac acacaagcta gctagctagc 120
cgctagagct aggggtcgctg gatagatcga catggccggc agggacaggg agccgctggc 180
ggttggtagg gtggtcggcg acgtgctgga ccccttcgta cggaccacca acctcagggt 240
cagctacggt gccaggaccg tgtccaacgg ctgcgagctc aagccgttca tggtggtgca 300
ccatccaagg gtcgaggctg gaggacctga catgaggacc ttctacaccg tcgagatggc 360
ggaccagat gctccgagcc caagcgaccc gaaccttaag gagtacctac a 411

<210> 14012

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D12

<400> 14012

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taccatcac acacaaacag ccactcctca cctcccccggt cctccgggttc atgtcctgct 120
gtcccccatg tcgccccccac tcgacctcga ctacataggc ctctcgccgg cggcggtctgc 180
cgccgctgcc cagcagcacc tgaaggggtac cgagctccgc cttggtctgc cgggggtccgg 240
ttcgccggac cgccgtgttg tggctgccac cgcaaccacc ctggacctgc tcccggctaa 300
tggcgccaag cgccgggttt ctgacgaggc gccgacgcca tcgcccgggtg cagcttccgg 360
gaagggaaaag aaggtagcgg aagaggagga cgacaagaag gttgcagcga 410

<210> 14013
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D3

<400> 14013

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caggaatgta ccattcaagt gaaggattca attggtctaa ctgacatcac tattggcacc 120
ggagaggtgg agctagggtc acttaaagat acagtaccta cggacaaaat cgtgactcta 180
tatggaggat ggggtttgtt tgagaagcca taggctgggg aagttctact tcggctgaca 240
tacaaggcat atgtcgagga tgaagaggaa gaagacgaag ctgtgacaag cgagattgat 300
gccccgttac cctcatacga ggatgtgctg tactacttta gtggcatgag caagggtact 360
gatttcgtca gtaaagaaa ggaactttc atggatctt 399

<210> 14014
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D4

<400> 14014

accaagcctt ccgttctgta agcctgctgc cgtcttcttc cgccgccgcc gccgtcgtct 60
tcgtccgtag gtcaggcagc ggggaggaag aaaaagcgat cgatggcgtc caactacgtg 120
gacacgacgg gcgaggaggg acggttccac ggccctcaca gccacagcac cagcagcacc 180

ccgacgggcg gcgcggcggc ggcggcgga tcgccgcga acttccggcg cagcttctcc 240
 tccgcgtcct ccgcgggcca cagccacggc ggctggcggc gccg 284

<210> 14015

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D5

<400> 14015

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 gcagccggcc aagatcggcg gcggggcgcc ctttgctctg ctgccgtccc gcccgctctc 120
 gcaactcgcc tgcaggcggt tcggcgctga cgccggcgcc gccaggatca cgtgctccct 180
 gcaggacgtc gccagcaggt gcgtcgacgc cgcaagctc gccggcttcg cgctcgccac 240
 ctcgggcgctc ctctgtctcg gcgcgagcgc ggagggcacg cccaagaggc tgacctacga 300
 cgagatccag agcaaaacgt acatggaggt gaagggcacg ggcacggcga accagtgcc 360
 gaccatcgac ggcggcggtg agtcgttccc gttcaaggcc ggcaagtacc agatgaagaa 420
 gctgtgcct 429

<210> 14016

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-D9

<400> 14016

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 cggctgcatg agggggcggc gcgggtggca ctgccccgcc gacgacgcct tcttgtgcca 120
 gacctgcgac gtctccgtgc actcggcgaa cctctctgcg cgccgccacc accgcgtccg 180
 cctcccctct ggtctctgct cctccccacc gcgcgacccg gacgcgcca cgtggctcca 240
 cggcctcaag cgacggccac gcacgccacg gtccaagcca ggggggagca agagcaacaa 300
 gcatgaggcg actcccagct ttatcgccgc ggctgcgtcg tcggcagcgg tccccgacct 360
 cgaggcgag gagtccggct ccggtatcct gggcggtaac gacgacca 408

<210> 14017
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E1

<400> 14017

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 gctgctatgg tctgtgtcat gtacaccacc tcggcacaag caggaaggag tggctacaac 120
 tcgtacgaac ctgatggaag ggggtggatac aactctgttc ccatcaacgg cgggtggcagc 180
 ccctagctag gcggtggatc ggagcctgta tcagaaatcg aaataatata agactgtctt 240
 caacggatca cactgccgct ccccccacgt aaatttgggg gctacagtgc acacgctagc 300
 cgatcaacgg ctcacgctac caggcgctct acgcggatgt gcccctagc cagcttctct 360
 ctccccctcg ttctgtggtg cctctctcac cctctctaatt attgttcacg tgggcccact 420
 tccaattatt agt 433

<210> 14018
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C5

<400> 14018

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 ctctcagtgc atctgtccat ccaggacaca aaggccaata catcagttag atagtttata 120
 acttctcaac ctgattagga taaaatggtc tgaactacat agctagctga cgcagttggt 180
 caacttatct gtggtgaaga tgaaggacat tagggctttc aatagtcctg cacaatacac 240
 ttgcactttc atgtgcaaga catggatttt tatcatgata tgaagggctt gtaacataat 300
 ggctcagcct tgaccatttg tagaagcagc acaaagtcac tttgaagtac atggatttct 360
 gtgaggatta attttttttaa tatttacttg tggtgagaaa tagaaggag tggtgagagc 420
 tatctcg 427

<210> 14019
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B11

<400> 14019

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ggggcgggcg agcggctgcg gctgttcgag gcgacatgt acgacgccga caccttcgag 120
cccgccatcg ccggctgcc a ttctgtcttc ctctgtcgca cggccctgac gcacgacccc 180
accagcacca agtacaaaaa cacgacggag gcgggcgggtg acgcggcgcg catcatcctc 240
cggcagtgcg cgctgtccgg cacgggtgaag cgcgatcatc acacggcctc gggtcacggcc 300
gcgtcgccgc tcaaggagga cggtagcggg tacaaggact tcgccgacga gtccaattgg 360
acgccgtca acctctccta cgaattcacc aacgcttacc tggacgacta cgtgc 415

<210> 14020
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B2

<400> 14020

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ctccgtcacg cggaccggca accaccggat gcgcgccgcc gtctgttcgc tgccggagac 120
gaaagactgg agggaggatg ggattgtgag ccagtgaaa aaccagggcc actgtggatc 180
atgctggacc ttcagatatg cctcaciaac aaagaggcaa aagggtaaac ctgcaggaga 240
gctttcatgg aatgttgagg tgcagaaact tactccctcc gggtttcctat tagttgtcgt 300
tttggataag cactactggg gcacttgagg ctgcatatac ccatgcaact ggcaagccca 360
tctctctctc tgagcaacag cttgttgact gtggttatgc attcaacaat ttcggatgca 420
ac 422

<210> 14021
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B3

<400> 14021

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aaacccgaag ccaccccgag gatgggcca attcacactt cctagcccg cctccgtcca 120
aatctctttt cggcccagg aggcggcgga acttggtgcc tgcattccgag ccctagacat 180
ggatcaacct gaggaacc' ctgaattccc aagctgtgat gcctactttg aagctatcca 240
gtccaagaag aagttgccac tgactttgca agaataccta actgctgcct ttgctcagat 300
tccagtctca tcttccctg aagttccagc tggctgagta attgaaattc ctggtgatac 360
ttctgttatt gatgctgtaa ggactctctc tgaacagaac ataagggcag caccagtact 420
gaatccagaa cctggggctc ctactgattg gcaggg 456

<210> 14022

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B4

<400> 14022

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atgctggacg tgggtgatgg aatgagggtc ctgggaacag tcgtagggaa ggattgatgt 120
catacaaaca attcattcag gaacttgaag atgacgtttc accagttgaa gctcaaagca 180
gatacgaggg gtacaagtca gagtacatca caactcagaa gaaagcatatc tttgacctcc 240
ataaggatga agattgggta agaaataagt accatcctac aaaccttgaa aatgtcattg 300
aaagaaggaa tgaactggca agaactactg caaatgattt cttcctaataa ttgcaaagtg 360
gagatctgga catcgggtcca ggtttgacgg gtteggcagt gagcaaatca ggaattaata 420
gcagtaaaaa tct 433

<210> 14023

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B5

<400> 14023

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gagcctatcc aatgccctat gacaggatca tctccagcgg catacctgtt ctccacagca 120
aactgatcac atggccgcca tgtcactgta ccatcagaat atctcggaga acttcaacaa 180
gctcgacgtc tccaacactg tggcctaact ccttcacacg gctaccgcgt accgttagct 240
cgacgacaaa ccttgcgacc aacacttcga gaacgcctaa ctgtac 286

<210> 14024

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B6

<400> 14024

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tcaatcatgg cggacgtcga tgtcgaaccg gaggttgccg ccggcgctcc caagaagagg 120
acgttccgca agtacagcta ccgcggcgctc gacctagatg cgcttctcga catgtccacg 180
gacgacctcg tccagctctt ccccgcgcg cccaggagaa ggttccagag ggggtctgaag 240
aggaagccca tggcactcat caagaagctg cgcaaggcga aaaaggatgc tctgtctggt 300
gagaagccag agccagtcaa gacacatctc cgtaacatga tcattgtccc tgagatgatt 360
ggaagcattg ttgggggtcta caacggcaag acgttcaacc aggttgagat caagcctgag 420
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<210> 14025

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B7

<400> 14025

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tcctgggcac ccgcctggcg gaccggcg cccagaaagg gcgcacgtg gcccggttcg 120
ggttcgggtt gggcggaag gcgaagcctg ctccgaagaa ggtggcgaag acatcgacct 180

cctctgaccg gccgctgtgg ttccccggcg ccgtggcgcc cgactacctg gacggctcgc 240
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 tcgagttgga ctgctggac cagaacctgg ccaagaatga ggccggcggc atcatoggca 360
 cccggttcga gtccctcgaa gtcaagtcca ccccgttgca gcctacagc gaggtgttcg 420
 gcctccagcg g 431

<210> 14026

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-B9

<400> 14026

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 ttgcacctgg tagtggtacc tcttcagctg aattggcttc tagcgttctg aaagggagcg 120
 aggattggga tgctgatgta atggataagt attctattgg aaaagaaggc aaatctaaaa 180
 atattgatcc agttaggaag gatgattcag tagcaatctt agaacagttc tttggcaatg 240
 ttttatcgaa aagcggcagc aacctaccaa cttatgttga gaaccagcca ttgaaaactg 300
 atgatgacat gatcacttct gtgccagaat catccaaatt tgctcattgg tttcttgatg 360
 aagacttgaa acctgcagaa gacttatctt caaagagcct gctctncatg a 411

<210> 14027

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-C11

<400> 14027

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 tcgtcctcgc ctgccaggct gccatggcg cgacgtcccc cttegactgc gtccctctag 120
 acctcgacga caccctgtac ccgggcgaca ccggcatcgg cgcggcctg aggcgcaaca 180
 tcgacgagtt cctncaggcc aagctcggcg tgtcggccga cgaggccgtc gtcacgcgcg 240

ccgagctctt ccgcgcgcac ggcagctccc tcgccgggct catcgcgctc ggctacgacg 300
 tgcacccgga cgagtaccac agctacgtgc acggcaggct accgtacgac aggatcgcg 360
 gcgacccgca gctggcgcggt ctgctgcaga gca 393

<210> 14028
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-C2
 <400> 14028

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 ggcacaaatc taacgaagtt catttctact caaggaccac ttgccaatac aattgaggat 180
 ttttggcaga tggatatga gaaccactgt cctgtgattg ttatgctcac caaatttgat 240
 ggtcttaagt gtgatgagta tctaccattg agcaaggac aggctgtttt tggaaaattt 300
 accattaaga tcacaaagtt caggaaagat ggtcagttat tgttgcgtgg tgtggagatt 360
 cgacaggatg agtcagatga agtgcgatct cttctccaca ttgagtatcc ggagtggcct 420
 gaccatgggtg tgccaaac 438

<210> 14029
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-C3
 <400> 14029

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 tcatttgatt caaacattta gcactgatag tcttcaacat tcaatgatta catcaatgcc 120
 atccatatat agattgcttg cacaaatcta actaagttca tttctactca acgaccactt 180
 gccaatacaa ttgatgattt ttgtcaaata gtatattaga accactatcc tgtaattgtt 240
 attctcacca aatttgatag tcttaactgt cattagtatc taccattgag caatgtacat 300
 actattttta caaaatttac cattaagatc acaaagttca caaaagatga tccattatag 360

attcatttgt gaatacattc tacactatga gtcacattaa atgcgatctc ttcttcaca 419

<210> 14030

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-B10

<400> 14030

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catccagaag gagagcaccc tccacttggg gctgcgcctc atgggaggca tgcagatctt 120

cgtgaagacc ctgaccggca agactatcac cctcgagggtg gagtcttcag acaccatcga 180

caatgtcaag ggcaagatcc aagacaagga gggcatccca ccggaccagc agcgtttgat 240

cttcgctggc aagcagctgg aggatggccg cacccttgcg gattacaaca tccagaagga 300

gagcaccctc cacctgggtgc tccgtctcac ggggtggtatg cagatctttg cgaagacact 360

cactggcaag acaatcacc t 381

<210> 14031

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H5

<400> 14031

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tctggtcttg ttgggttcac gcttcatggg tcactttcac attactacta ccatactctg 120

gaggcactat tccattcaa ggattgggtg gttgtccctg caaagggtgc attcgatcag 180

accgttttgt ctgcaatctg gaacagtatc tacttcgtgg tottaggttt ccttcggttg 240

gaatcaccta ccactatcta cagtgaactc aagtctacat tctggcccat gcttaccgct 300

ggatggaagt tgtggccttt tgcacactta attacatatg gtgtgggtcc tgttgagcaa 360

agacttctat gggtcgactg tgtggagctt gtctgggtca caatattgtc gacgtac 417

<210> 14032

<211> 309

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-H9

 <400> 14032

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 gatgtatata ttaatcatcc tattttaata tatattaatc atcctatttt aattagggtc 120
 taatccaatt agtagtaagt attttctttt ttatttaata gtctctgact atcattaaat 180
 aaagggtaga gcaattcttt tttctagaga ttctagagaa agtgagacaa agtgaaacga 240
 aagagttttc tttgtataag aattagggtc atatcatatc taaatagaaa gggaaatcaa 300
 aaagaaagg 309

<210> 14033
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-A10

 <400> 14033

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 ctgcgaagat cggagagtgg ggtggatacg ccggcgatcg tcgggatctg agggctactc 120
 cggaccgtct gatcgagggtg aatgtcacgg cggacaacag cagctgcacg cgctccatct 180
 gcttcatcta catcggagcc gatgggcaac cgtacgagga agggccatgg ggtttcggcc 240
 atgctggcac tgagtacatg attgatctgt g 271

<210> 14034
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-A11

 <400> 14034

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 gccacccccg cgccgtcctc ctctcctcggc tccggctcgg gccgccccag gccagggtc 120
 atccggaacg cccccgtctt cgccgcccc gccaccgtcg tgggcatgga cccaccgtc 180

gagcgttga agagcgggtt ccagaagttc aagaccgagg tctatgaaa gaagccggag 240
 ctgttcgagc ctctcaagtc cggccagagc cccaggtaca tgggtgttcgc ctgctccgac 300
 tcccgcgtgt gcccgtcggg gacactgggc ctgcagcccg gcgaggcatt caccgtccgc 360
 aacatgcctt ccatgggtccc accctacgac aagatcaagt acgcccggac cgggtccgc 419

<210> 14035
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-A12
 <400> 14035

gctcttcag cacattatag gttccaccta gttgtggatc aacgaagctc tgtgctagag 60
 ccatcaactc aattgtatac tgaactatgt caccaggcag ggatcctttg gcatcgagcc 120
 agctaactcg tgatgcgttg gatcctttca tagaggcagc tacgatgagg accaattata 180
 gtgacaagga gatcacaat ggcactgtac tactagcatc tgatgtgctc aatgcaccac 240
 atgtagagat agaacgccac gtgcaagcaa atctatacac actgggttatg gtggatcctg 300
 actcaccaag tgcacgctta ccagagtaca gggaacatct gcatagttga gctgatagca 360
 tctgatatac aagccaattt tgagttgaat attacctaaa ctctggatag c 411

<210> 14036
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-A4
 <400> 14036

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 aatggatcag aatggagaat tgctgctggg gaatgtcccc tcccgtgtg actttcccg 120
 ctttggaaga agagtgttg tagtcagctt cgtaccggca ccgatctccg gcgtccgcag 180
 ctggttcttt gaagggtcaa gagttgttgt tgcaccttcg tcgatgaaac accctcgatc 240
 ttccttcatt cctgccgtcc gaactttctc gaaacgccgt ccttcaccaa tgggtctctg 300

tcagctcagc aacggctccg cgaacttccc ccatgtaact cctcgtcggg cgaagtgcga 360
cgagaggatg tccagcgtcg tcatgacc 388

<210> 14037
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A5

<400> 14037

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agaagagcag agatatacat gatcgagcag aggcggatag aagaggatga gcaccacaac 120
tgcgctgcta ctgaacccca acgcgccgct ctcatcccg gctgcgtacc gtcagggtgga 180
gtacttctcg cccgagtggg gggagctcgt caacaccacc gcctgggttac gtgaccactg 240
cttcggcgag cgccagctcc actaggccgt ctgcgacgac gtcgccgagc tcctactcga 300
cgacctcctt gacaccaacg acctcttcta cgcgcccg 338

<210> 14038
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A6

<400> 14038

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gcagcgcccc tgcctccct tcccccttcc ctccctccct ctcccccgcg gccgccagag 120
gcaatttcgc cctcgattcg accccgattc gtcgccccgc gaccgggatt ccttcgcga 180
agcgcggtac tgaacgctgc gctccgtgtc gccgctcgaa tccgccatga agggggccaa 240
atccaagggc gccgccaagg ccgatgccaa gctggcggtg aagagcaagg gggcgagaga 300
gcccgcgaag ggcaggaaag ggaaggccgg caaggacccc aacaagccta agagggctcc 360
cagcgctttc ttcgtgttca tggaggaatt tcgcaaggag ttcaaggaga agaaccctaa 420
gaacaagtct gtcgc 435

<210> 14039

<211> 371
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-A9

 <400> 14039

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 ctgctgcca agccaaggcg gcgccccgt cgctgctgcc atgcatgcac ctncagttcc 180
 tgtcggcagc gagcccgcg cggcggtggc gggccggcgc ccgcgcggta cgggcgcatg 240
 tgtccaccac cgagaccgcg gcggcggggc cggcgaagac gttcaagaag caggacgagg 300
 ggctggtcac caacaagttc aagcccaagg agccgtacgt cgggaggtgc ctgtccaaca 360
 ccaggatcac c 371

<210> 14040
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-G12

 <400> 14040

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 ggctctctcg tcgtctctgc gtcctctctg cagcctccgg cagcgtggcc gccatcaagt 120
 tcgaggtcct ctgccgcagc gtcgccgagt gggcggtatg ccaggcggtg ggcaccgct 180
 ccgcgctgga attcatcgat gtggcctcct tccccggcgg cgctccctctc tacaccgacg 240
 accaggagtg gtctagctgg aagcgggtcg gcgacaaggt cctgcacatc gagctgcgcc 300
 ggtgggccga cgtcctggtc atcgcgccgc tatcgcccaa caccctcgca aaggctcggc 360
 gcgggctgtg cgac 374

<210> 14041
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-G2

<400> 14041

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cagcaccagg gccctctcct ncacagcctt cggcggcaag gcagtgaacg tgccgtcgtc 120
tctcttcggc gagggcccgcg tgacgatgcg caagacggcg gcgaaggcaa agccggcggc 180
gagctccggc agcccgtggt acggccccga ccgctgtctc tacctgggcc cgctgtccgg 240
cgcgcccccg agctacctga cgggcgagtt cccgggagac tacggctggg ataccgcggg 300
gctgtcggcg gaccgggaga cgctcgcaa gaaccgggag ctggaggtca tccactcccg 360
ctgggccatg ctgggcgcgt tgggctgcgt gttcccga 399

<210> 14042

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G3

<400> 14042

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acgtccaggt gtacggaaaa caaatatcat tgcattgacat cccgtgtcta agtataatca 120
gagttttaaa cagatgactg atgagactga tattgcacaa cccagaacca acccaacagg 180
acacctagct gtatagatcg tcatcgtcag ccgcagcacc agccgaagca aacggatcgg 240
ctgcagcagc accagctgtc gccgactgct ctgagaagcg gaactcgctg ccgaaccac 300
gggactgtg caacgtctgg gcgaacgcct ggtacttgcg gatatacaga tcaactgacac 360
tgcgccgagc atacttcata gactcctcga agtgagctgc tttgatctcg gcaatctcgt 420

<210> 14043

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G5

<400> 14043

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ccagggctca ggtatgaaag tcaccattcg tcagctgggg ccttccatga tacagcagat 120
gcagcagcct tgcaacgagt gcaaggggac tggggagagc atcaacgaga aggaccgctg 180
cccaggggtgt aaggggtgaga aggtcgttca ggagaagaag gttcttgagg ttcatgttga 240
gaagggaatg caacacagcc agaagatcac cttccctggg gaagctgatg aagcgctga 300
taccgttact ggagacattg tattcgtcct ccagcagaaa gaccactcca agttcaaaag 360
aaagggtgaa gatctctttt atgagcacac cctgtc 396

<210> 14044

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G6

<400> 14044

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gtacatcccc aacgccaaga taccatgcgt cggcccgcac cccaagaacg tgatcctcct 120
ggcgtgcgac gccttcggcg tgctcccgcc ggtgagcaag ctgaacctgg cgcagaccat 180
gtaccacttc atcagcggct acaccgctct ggtcgccggc acggaggacg gcatcaagga 240
gccgcaggcc accttctccg cctgcttcgg cgcggccttc atcatgctcc acccgaccaa 300
gtacgccgcc atgctcgccg agaagatgca gaagtacggc gccaccgggt ggctcgtaa 360
caccggtggt tctggtggca ggtacggcgt gggcaagagg atcaagcttt cctacaccag 420
aaag 424

<210> 14045

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G8

<400> 14045

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ttcagcggaa aggttttagat ctgcagtgag tggaagaaga gcaaattgtc ttggtgagat 120
taccagatt gatacacgaa gtctacttct tgagaaagcc aaggcaactg tccgcaaaaa 180

attgcaggag ttaaacatta catcatcttc acgatttgca gagagaagag gatctgaagg 240
aaagctaaat ccttgtggca acaacataaa ggtcaatggt gtctctctctg acaaacctgg 300
caagggagtc aagctatgta gctcaagaag catagaaatc caagtgcctg atactgatga 360
caagaatcca gagcagcgcc gtgtacctgt gtcaattgac gtcccaaacc ccgacttcca 420
tgatttcga 429

<210> 14046
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H1

<400> 14046

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gcaacccggc actgagaggc acgcagagga gcaggaagcc ggagaccaag atgtcgtcgg 120
tgttcagcgg cgatgagacg gcccccttct tcggtttcct cggcgccgcc gccgccctcg 180
tcttctcatg catgggcgca gcgtacggga ccgcgaagag cggcgtcggc gtggcgtcga 240
tggggtgtgat gcggccggag ctcgatcatga agtccatcgt gcccggtggc atggctgggtg 300
tgctcggtat ctacgggctc atcatcgccg tcatcatcag cactgggata aaccccaagg 360
ccaagcccta ctaccttttt gatggctacg ctcacctttc gtccgggc 408

<210> 14047
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H10

<400> 14047

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tgtgctgctg tcgcatcagc cgcccgccga gcctcagatc caccaccagc accgatgccg 120
gtctctgca cccaccacgt tcagctccgc ctctggtggc gccgtctcgg tcgacgcagc 180
gccacattcg cctcgcgct cctcgccgtc gccctcgtgc tcacgtctct ccgctacgcc 240
gcaggccctg cgccctcccc gccccgctcc tcgttctacg ggcatcgact accggccctc 300

gtcgacatca ccctcgtcta cggcgccatc gacaagggcg cagtgtgctt ggatgggtacg 360
ccggctgcct accacttcct tcctggaatt tggga 395

<210> 14048
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H12

<400> 14048

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agatgacaac ttcactgcca aggtgtccga tttcagtgcc tcaaggccaa taccgcacaa 120
ccagacccat gtgacaacat tgggtgaagg gacactaagg tacatggacc ctgagtactt 180
tcatacaagc caactgactg acaagaatga tgtctacagc tttggcgctcg tactcatcga 240
gctactgaca agaaagaatc ctatcatgga tgatatcgcg gaagacatta taagcctaac 300
gctgcaattt actatgctat tccatggaaa taagctgctt gaaatcgttg atcctgtagt 360
atctt 365

<210> 14049
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H2

<400> 14049

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gcacagccac agctgttttag gtagtagcta gacgtacgta cgtactcaca cgacgatgac 180
gaaggcgtgg aggccgatgc tggcgctcggc caccaagtgc tgcgcggcgg aggacgcggc 240
ggtggcccc gacggcctgg cgcgggtgccg gccgcagcag tcggagctct cgcggcggtc 300
ggcgtccttc aggcgcctgt cgtcgtcggc caacagcccc gcgtcggcgg cgggcacgga 360
caaggacggc ggcagcgtca agcaggccgg ggagatggcg ggccccg 407

<210> 14050

<211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-H3

 <400> 14050

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 cgteggcggc ctcgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta 180
 cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt cccgcggctt 240
 cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 300
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 aggcggcggc ggcggctacg gtggt 385

<210> 14051
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-E12

 <400> 14051

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 tgcacgact ccatatactg ctgctattcc tgaatacaga gttgttttca ttgacaaatc 120
 tgacctgtca ttccaagata gatcatggac actagccaac ggtactggtg tgattgatat 180
 tcaacaccct tgcaagtcta atgttgctgt tcggaaggag ctgcacaaac cagcttcaga 240
 tcgctcttgt atccatctcg agtttgacat ttctggcact ggtcttgtgt atgaaaccgg 300
 agaccatggt ggtgtatatg cagaaaattc tgttcaaact gtggaagaag ttgaaaggct 360
 ac 362

<210> 14052
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-E2

<400> 14052

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tggaggacta cacctgatcg agaagggtggc gcacttcgcg cgggagcgca tcccggagcg 120

cgtggtgcac gcgcgcgggg cctncgcca gggcttcttc gagtgcaccc acgacgtgac 180

gtcgtgacg tgcgcgcgact tcctgcgcgc gcccggtgtg cggacgccc tgatcgtgcg 240

cttctcgacg gtgateccacg agcgggggtc cccggagacg atccgcgacc cgcgcgggtt 300

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cttcttcacg cgcgacggca tcaagttccc cgacgtgat 399

<210> 14053

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-E4

<400> 14053

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gccgcggcgg catggggcgaa tcgcttctca ccgcgctctc catggacacc gncacggccc 180

accaaccgca ccaaggcccc ttcaacttcc ttttcatgga caccgncttc cacgacgaac 240

ttcgacctct tccttcagcc acagggccct ttccgcgctg cctacatgcc gcggcggtcg 300

ccccccctga catcaacctt cccctagccg ncgaccgctc tccgncacct ctggcgctcg 360

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<210> 14054

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-E6

<400> 14054

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tcgacagatc cattgttcac gacctcacc tattcagatc ccaagcggcc acgccaagc 120
 ccaaacccta cccaccatc tcaaccagcg atgatggcag cggagccctc gccgtcggtt 180
 ccctccaccg ccgctgaaga catggaaacc ctgcgccctg actcatcctc ttcgtccgcc 240
 gccgctacgg cctcgcctc cgacccctc cttcggccac ctacctccc gaccgccgcc 300
 gcgagcgacg accccttcgt catcgacgac ttctcgacg aggacgactt caccgncccg 360
 gcgcccagcg tcgcgggccc gccgnccgnc gggcttgggc atgcggcg 408

<210> 14055
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-E8

<400> 14055
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 aacgcctcgc tcacgtctta cccctaatta cattccccca tggaaccctc atcctctcaa 120
 tccatccacc catccatccc attcctgaat ttatgctact catatctgta acttctcttt 180
 atccacgtta atgccatoga acaccccgcc ctcaatctat ccacttggtc tcgtctctgt 240
 tccccctgag gcctataacc actactctgc tcatgctcct gcttcaacgc ctcagcgatc 300
 tacgacaaa ccgccccgca cgattgtcac tactcgacac acttcgatgt ccatgtgttt 360
 atcccaatct cccctgcttt cctcattctt ctccctcttt tgcttttaa 409

<210> 14056
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F1

<400> 14056
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 ttaggagcca accggctgcc gagccatgtc gtcgcctgct gcaggcacgg cagctgagcc 120
 gcacgtcgtg gaggactgcc tcggcttcgt gcagctgctg agcgactgca cagtgaggcg 180
 gtccacggac tactccatgc tccgtcccat cggccgcgtg ccgtctgaca cggacctgcc 240

cgtgcagtgg aaggacgttg tgtacgagga cacgcgcggc cttcggctcc gcatgtaccg 300
 gccactggc gccgcatccg gggagactaa gctgcctgtg ctggtgtact tccacggctg 360
 ctgcttttgc cttctcagct tctaggtggc cagctttca 399

<210> 14057
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-F11
 <400> 14057

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 gaaagagcac gcatcgggtgc cgttcgatga ccagtgtccc atcctggaga aggaggccgt 120
 gaacgtgtcg ctccagaacc tcaagagcta ccccttcgtc aaggaagggc tggccggcgg 180
 gacgctcaag ctggttggcg cccactacga cttcgtcaaa gggcagttcg tcacatggga 240
 gcctnccag gacgccatcg agcgcttgac gagcgggttc cagcagttca aggtcaatgt 300
 ctatgacaag aagccggagc ttttcggggc tctcaagtcc ggccaggccc ccaagtacat 360
 ggtgttcgc 369

<210> 14058
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-F12
 <400> 14058

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 tggagggggc cacggggtca ctctacggc gcctcaacaa gagcagcacg cgggggttcc 120
 tcgcctacac cgtcgccggg gctgctgctg cggtgtcctt cgcttcttcg gtgtctctcg 180
 ccgcggactc gccggcatct ggggcacgca acgatggcgc gcgcctnecn ctgtctctcg 240
 gctcaccgcy cgtctggccc gacctcgct tcaactggcg ggtggtggte gccaccgtcg 300
 tcgggttctt cggttccgcy tttggcaccg tccgcggcgt cggcggatgc gggatcttcg 360

tgcccatgct caacctcgtc gtcggcttcg acaccaaatac cggcggc

407

<210> 14059

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F2

<400> 14059

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tttgatccga tcaattaaaa gaaaggaccc ttacctgatt tgaatttcat cctcctttaa 120

ataggatatg ctctaagtct tcccatactt tcctataatg actgcaacga ttttctccat 180

tttgcggaatt cctattttat ttgaagtata ttactatcat atacattatc taaatcgatc 240

cactttaaat aaaatagaaa aaatcgaaag aaaaaaaaaa agaaagagta aataataaaa 300

caggatattc tgtttcataa ttctgaaata gagttctttt ttttagtatt actcctcatt 360

aggatgtata tattaatcat cctattttaa tatatatata tcatacctatt ttaat 415

<210> 14060

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F3

<400> 14060

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tcctatatta ctcaactatt ttcccatttt cctaattcct attttatttc aactatatta 120

ctatcatata cattatctaa atctatccac tttaaataaa atataaaaaa tctaatacaca 180

aaaaaaaaa aataactcaat aataaaacaa catattctct ttcataattc ttaaataaaa 240

ctctttcttt tattattact cctcattatc atgtatatat taatcctcct attttaatat 300

atattaatca ttctatttta att 323

<210> 14061

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-F4

<400> 14061

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ttcnnnncgg agacgcccgc catggacgcg ttccggaaac agctggacgt gctcatgggc 120
gccaaaccga acggcgacgt cgaggagggtg agccgcaact actacgaccg cgacgtctgc 180
cgctcttcc tcgccgtct ctgccacac gacctcttcc agctcacgaa aatggatctc 240
ggtccttggt ctaagattca ttctcttcaa ctgcggaaag attatgaaga agcgaaagca 300
aagggaacag aaaattttga tagagaactc gaggatatga tagaaaggct cattgtggag 360
tgtgacagga aaattcagag ggcctaaaaa cggcttgacg atgatgatgc caatgct 417

<210> 14062
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F7

<400> 14062

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cgcaaccgga tccctccccg cgcccaacga tgccggccgg ccagccgcac gcgcacgaag 120
ccgctgccgc cgctgcgctc ggcagcggcg cgaaccactc caaccaccga gtgccggcgc 180
actcgccacc gccgctcccc gcggagggtg tgccggcgta cccgcccccg gagtcggagg 240
acgacgagac ctgggtgtgg acgcagatca aggcggaggc ccgccgcgac gcggacgcgg 300
agccggcgct cgcttcttcc ctctacgcca ccgtgttgte ccaccgtcc ctgccccgct 360
ccctctcctt ccacctcgcc aacaagctct gtcctccac gtcctctcc acgctc 416

<210> 14063
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-C2

<400> 14063

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 aataaaacgt gatggtgaat ccatcatggc catgatggat tcaacatcgg aaaagatgta 120
 cctctgccag gtaccaagtt tttgggttaa aaagattaag ctgagaccgg gcgggtgact 180
 tgcacgagaa gaaagtctcg gtgtagtgtc tccgtctgag tcgattaagg accgtctcga 240
 tgtaagcttg atgatcgaag accctttaac tggtcacatg cctcgtcatg ggtaagcctt 300
 gcctcgggca gactaaggcc ggaataagat aacacgaaat gggcgttgag cgggtggcgag 360
 agtaacgtgt ac 372

<210> 14064
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-C3
 <400> 14064

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 aatccatcat ggtcatgatt gattcaacat cataatagat ctacctctgc catctaccaa 120
 gtttttgtct taaaagatt aatctcacac tcctcccatg acttacacca gaacataaac 180
 taagcatagt gtctacatct tagtcgatta acgaccctct caatgtatgc tttatcatca 240
 atgacccttt aactgctcac atgccttgta atcgctaagc ctttcctact tcaaactaaa 300
 gtcggaataa aataaca 317

<210> 14065
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-C6
 <400> 14065

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 acgatcgata tattctcccc atccacaagt tagctctgga tactagtttg tttgctgtaa 120
 gactttttca gcattatctg aaacgttaaa tgtctttcta tattcttggt ctgtcttgct 180
 atcatactgt ttgtggattt cctacaaaaa atatctggct gaggttgata atgagtacta 240

catccgttct cgaatatttg tcgcccggta gttcattttt gaactaaaac acggtagttc 300
 atttttgaac taaaacgcga caaataaaaa aagaacggaa ggagtgtatt acagccatta 360
 gtgattacgg attggtcttc cgcacatgag ttcattgatga tgtgctcttg ttgctattct 420
 atagcttggtg caagta 436

<210> 14066
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-C7
 <400> 14066

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 ctcggttgaa acgacagggtg gtgagagggtg ttccctggct tacaatcaga cggccttcgt 120
 cagatcatgc aagacgatgc tgtattcact ccggaagcct ccaatgcatt ttgagaccct 180
 tgtgttggtg cacttccacg agcatgagcg tgccatcctc gacgcttgca gggcttacat 240
 gtctgggaca gtcgttgggt cgtctgctgg gactgggagc aaccgcagat acgtccatga 300
 caagtgcttt gcagaattcc acaagtcgct gacgctctac actgaacatc tcagggtgta 360
 gtttgctgca aacacacgac gagtgatgga gctggaaaca gaagactaga tcgtgcct 418

<210> 14067
 <211> 360
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-D1
 <400> 14067

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 tacctaacgg taactagcct tectgtaacc cggcaaaaat ggctggcctt gccttcacca 120
 cggccgcggc ggccgcagcg ctgctgctgc tgctcctcct gtcgctcgcc gcggcgggcg 180
 acatgtcgat cgtgtcctac ggggagcgca gcgacgagga agcgcgggcg atgtacgcgg 240
 agtggatggc ggcgcacggc cggacctaca acgccgtcgg cgaggaagag cggcggtacc 300
 aggtgttccg ggacaacctc cgctacatcg acgcgcacaa cgccgncgnc gacgcggggc 360

<210> 14068
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-D2

<400> 14068

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 gtgttttcgat atatatggcg aggtccccgt ttgttcgat ggatcagggg aaagagcaag 120
 gcgccggacg aggagcggcc ggcaataata aggagcggca gcagcaggag caggagcagg 180
 aggaggtgct gctggtgcac agccaggtgc ggcggatcaa gaaggaagac caggaggcct 240
 tcaggagcgc ctttctgaag ctgcgcctgc tggagacctg gccagcgcc gccggcggtg 300
 cctggcgagc cccgcgctcc ctgtcgccgc tccgccgtgc cggcagcgcc atcatcccg 360
 tcccggtgag cgagtgacta gtagcgagca tccgtcgaca 400

<210> 14069
 <211> 176
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-D4

<400> 14069

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 taggtttggg gtttagttaa atgaccaat gggttggggg tttgtgttaa gcttgggtgt 120
 gtcttcactg tataattgat attctgtccc catccatgtn cttcgttaat aaatgc 176

<210> 14070
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-D5

<400> 14070

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cgtcggaact atgacccccca gaaaaggcct ggcgtaccat tgatgctgtg gaaaccgtta 120
 gctcctatct atcctaagct cgtgcaaaac gttgctgaag ggttgacttt cgaggaaaca 180
 aaagagttga ggaacagagg attgaattct ccaccgctta caaaactgac taggaacggt 240
 gtctatgtta atgttgttga taaagtgaga gaagcgttta agactgtgga agttgtccgg 300
 ctagattgca ctcatgttgg gactactgac tgcaagaaaa ttggtgtgaa gttgagggat 360
 ttggttccat gcattcctat attatttaaa gatgaacaga ttatactat 409

<210> 14071
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-D6

<400> 14071
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 gctcgacat ggatccgcag cagccggagc ctgtcagtta cctctgcgga gattgcggag 120
 ctgagaacac cctgaagccc ggagatgtca tccagtgccg tgaatgtggc taccgcatcc 180
 tctacaagaa gcggacccgc cggattgtcc aatatgaagc gcgctgaata gtgaagacaa 240
 gggaaaacac tgaagatggg tgatctatta ctgccacat tacctatgta aacagtcttc 300
 tgggggaaat gaaaatgtca gacttaacgt ttgtatgtcg tgtgcctcct ttgaacctga 360
 gctgtataat ttgtaacgct tgaactgggg actgatttga gaactgagac actgcagcaa 420
 tatgttgatg ggtcct 436

<210> 14072
 <211> 240
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-D8

<400> 14072
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 aaccctttcc ttacccaact taatcctctt acatcacata cccctttcct caactttcct 120
 aataactaac atgccacac cactcaccct tccaacact tactcatcct taatgcccaa 180

tttaacacac cctctancaa cccattaaac acccctatta ttgttattac actcaacctt 240

<210> 14073

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-E1

<400> 14073

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agctgctatg gtctgtgtca tgtacaccac ctccggcaca gcaggaagga gtggctacaa 120

ctcgtacgaa cctgatggaa ggggtggata caactctgtt cccatcaacg gcggtggcag 180

cccctagcta ggcggtggat cggagcctgt atcagaaatc gaaataatat aagactgtct 240

tcaacggatc aactgcgc tccccacgc taaatttggg ggctacagtg cacacgctag 300

ccgatcaacg gctcacgcta ccaggcgctc tacgcggatg tgccccctag ccagcttctc 360

tctccccctc gttctgtggt gcctctctca ccctctctaa tattggtc 408

<210> 14074

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-C11

<400> 14074

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tggacaagag cgacatcctc atcgggccct acaaccggg gcgcggcttc accggcgga 120

cgcgctcgg cgtgtacctc gacacgcagg aggaggagca cgcgcgctc aagaccttcg 180

ccatggacct nctccaccgc tccgccgca cctggtccgc cgacttccgc gcgagcgtcg 240

gcgccatgct ggacgccgtg gacgcggagt tcggcaagga cgacggcagc gacaagaagc 300

cctccgncag ctacctcgtc cccctgcagc agtgcatctt ccggttcctc tgcaaggcgt 360

tcgtgggcgc cgaccogtcc gncgactggc tgggtggacaa cttc 404

<210> 14075

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-A2

 <400> 14075

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 ttgagtgaat gtcgtcagtt gaatgtactc caaatggact ccaattttat cacagggaac 120
 atttcgcctc tacgtagtct aacaagcttg aacatgatca acctctcaca caatatgttg 180
 tcagggatca tccctgcaga actgggtggg atgtcctctc ttaccagct ggatctatct 240
 tataatgata tacaaggcaa aattccaatg gatggagtat ttagaaatgc ttcagctatc 300
 tcacttggtg gcaactcgag actctgtggg ggtctgtcag atttgacat gccccctgc 360
 cctgttgccct taaaggaaaa ggcagcacia tactacatca ttagagtgtt gatcccaata 420
 tttggc 426

<210> 14076
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-A3

 <400> 14076

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 acacctggcc ttccacctgg gttattgaag tgtcctactc gaatacactt ctgcttcatt 120
 cgcattgtaa cacacgcgcc atatcatctg tctgcactct cacacgcttc aacatgtcta 180
 tgctacaaca gactacgtgc ctaccgatca tccgtccata actgaggtgc tctcgcctat 240
 ttacgtatct gacaacactt cataatgtc cacaatccatg gataacaaaa acatccagtt 300
 catagaactc atctatatca ctcacatctt ccaaactcaa aactatcccg agcgcctct 360
 tatctagacc tgcgagtgtg tactctacac ttctgagaca cgcccttgca aaagtccaaa 420
 attttactt 429

<210> 14077
 <211> 308
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-A4

<400> 14077

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ctctcttacc catcttaatc tatcttatca tgatctacat ctcataattt caatgcattt 180

attatctata aatccttttag ctatatcact tgttctcaac tccacactct atacatctca 240

natcatatat gcacatgccc ttcagtcatg ttgccttaaa agaaaaatca acacaatact 300

acatcatt 308

<210> 14078

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-A6

<400> 14078

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cggtccctgt accagccatg gttccttctt cctacggctg ctgctgctgc tgccgttctt 180

cttcctctgc ttcacgatg tgccgccggc cggcgccgcc gacaccacac agtcgcctgc 240

actagacaac acgcaaaagg ctatcatgaa cgatgttgcg agtctggtga actccggatc 300

cgncaacacc aggtggaaca ccgcggagtc gaatccgtgc aactgggaag gaatcacctg 360

cacaagtaac acttcttctt cggccgtgac toggatcgcc ttgtcaaact at 412

<210> 14079

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-046-Q1-K1-A8

<400> 14079

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ggcggcggtg agagggggcg gctgctgccg gtctcagcgg acgacggcaa gggaaacggc 120
ggagggggcag gcgggcgacga tgccgtgctg ttcaaggggt ccgcatgac ccgccgcggc 180
ggcacogccg cgctctctta catggcatgc tccgtgttgc tagtgatgtt taacaaagca 240
gctctctctt cgtataattt cccttgtgcg aatgtcatca cactccttca gatggtgtgc 300
tcaacgtgcc ttctttatgt tctgagacga ttaaagatca tctccttcac taatagtgat 360
ccatcagtgc cttctgattc actattcttt gtgccgttta ggttattact acgcaccaca 420
cctctntcct tggcttattt ac 442

<210> 14080
<211> 348
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-B1
<400> 14080

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atctgaccgg ccccgccatc cccaccgncg cgcctcttcc gggcagccat ggacgaggcc 120
ttcgcgcgcg cggtggaaga cggcctcaag ctcaccaagc gcctcgtcct gcccagcggg 180
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gcggcgctgc agcagctcat gccggcgggc cccaatggcg tacgccgtcg tcgtcgaccc 300
ggccgncgtc gacagccccg acgtaccag ctaccagccc cagctcta 348

<210> 14081
<211> 266
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-046-Q1-K1-B11
<400> 14081

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cggagatctg atccgatccg atccgatccg tttgtgcttg tgctgcagga gtgagaagta 120

aaaaaatatg gctgccctgc cactggccac cgccgaagta tgcgacgcta acccttacct 180
gatcatgaac ggcgagcttc ggcgcttca gccaatcttc cagatctacg gacggcgcca 240
ggtcttcgcc ggccccatcg tcacgc 266

<210> 14082
<211> 430
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-B3
<400> 14082

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aatgctgaac tcgatgacga aatgcttcag ctgtgggagg ctgcggagag gagctgcaag 180
aaccaaacgg ccaagtcctc gtcactctgag caccacatac aggcggtcga ggatctggag 240
agcgagtgcc ctctgtctga gctagcgaag ggaagagagc ttggaaccaa taagctagaa 300
gtgtcaaagg gagctgtaga gcctcacgag gcgtggagca agaactgtct tgagaggctc 360
acttctgatg cccagaggct gttgagcatc caagcgagca tcgaggaact gaanaagaaa 420
atggaagggt 430

<210> 14083
<211> 238
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-046-Q1-K1-B7
<400> 14083

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tcgacttctg cgcgccccac gggcccgcca agctcccggt tgcgtctgtc gctgggggtgc 120
gagtcgccgg caggtgggtt tggcgatcgg cggcggttgg ggcgggtgcac catggcgctc 180
acgtgcgggc cttatgcttc ggttctcgta tcggtctcga ttcttagaat tttcacac 238

<210> 14084
<211> 419

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-B8

<400> 14084

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 ccccgacgcc caggggagtg tgcgtgatgt ggtgctcgga ttcgatggct tggatccgta 120
 cgtgaaaggc atgtcacctt attttggtcg catagttggc cgtgtcgcga ataggatcaa 180
 ggatgggaag ttacactaa acggacttga gtattcatta cctgtcaaca atggacctaa 240
 cagccttcat ggtgggttga agggatttga taaggctgtg tgggatgtcg tggagcacia 300
 agatggcgaa tgcccttcaa taacttttca gtatcacagc aaggacgggg gngaaagcta 360
 tccaggcgat gtaaccattc gagcaacata ctctcttcct gaagctacta ctctaaagc 419

<210> 14085
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-A12

<400> 14085

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 gtgagtgagt gatcgagcta gctgagctcc gatcctcgct agctagctag gataaccgca 120
 taccacaagt cttcttcaca agtttaggag tgacagcaac aagagatctc gatggcctct 180
 gccaccgtgc tcaagtcctc cttacttccc aagaaatccg aatggggcgc caccaggcag 240
 gccggcgcgc ccaagccggc c 261

<210> 14086
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-045-Q1-K1-G5

<400> 14086

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gggaacatat ggtgttgtat acagagcaag ggataagaag acaagtgaga ttgttgcatt 120
gaagaaggta aagatggaga gggagcgaga aggtttccca ttaacctctc ttagggaaat 180
aaatatcctc ttgtctttcc accatccttc aatcgtggat gttaaggaag tagtagttgg 240
aagtagttta gatagcattt ttatggttat ggagtacatg gaacatgac ttaaagggtg 300
catggagacc atgaaacaac catatacaca aagcgaggtc aaatgtttga tgcttcagct 360
gctagagggg tgtaaatac tacatgac 388

<210> 14087
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G6

<400> 14087

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aaaggcacct ttttttgaac atggcggggg agggagcccc ggtgctggtg aggcagctg 120
gcggcgtgga ggagctgcgg cagctccgc cgggggttcg gttccgcccc acggacgagg 180
agctcgtggt gcagtacctc cggcgcaagg ccttgggcgc gccgctcccc gccgcgtca 240
tccccgtcgt ccgcgacctc tacagcctcg acccctggga cgccgtcgac gtggccggcc 300
gccctgatgc gagcagccaa agcgagagat acttcttcgc ggtgc 345

<210> 14088
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G7

<400> 14088

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tggtctacaa gtggccatcg cttttcacc tgctgaacac gccgagtacc tactaatccg 120
ctatgttctt catatggaga gtgccacga tctgaagctg acaactgac ctagagatat 180
gaacattctc ctggacgact accaagtcct acatcgt 217

<210> 14089

<211> 306
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-G8

<400> 14089

gatggcacaa gccatggcgt ccatgaccgg cctctgcag ggcgttctgc ccagcaggcg 60
cgccgccaac agggccagga cgcccgccgt cgtcagggcg tccgccgagg cgcaggcgca 120
ggcgggcccgt cgcgccgtgc tcgggctggt gggcactggc atcgtcggcg gcgccttgtc 180
gcaggcggtg cagcccgaga ccgtcaagac catcaagatc ggagccccgc cgcgccttc 240
cggtggactc cccgggactc tgaactctga ccaggcgagg gacttcgacc ttcccttgaa 300
agagcg 306

<210> 14090
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-G9

<400> 14090

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cccagagccc aagacaccca agcagcaacc acgcatggt ggcaagcgaa gccggccaat 120
ttccataagc ctctccacat cccctccctc ccattctgag ctctgggcag gtccagcatt 180
ctccaactct ccaccaccta gtctgcttcc catccccaaa ttctcgctcc gccagaagcg 240
cagcatctct ctcgagctgc caccggttga acgccctgat gatgtggtgg tcaggctgca 300
ttctaaatca gcaccttcac cccagttga gggatatggg tatgacttct tcaatgacga 360
tgcaatcgct agtgcgatag caacggagaa tctgaggagg attctccagc tggata 416

<210> 14091
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-H1

<400> 14091

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at ttggaggg aagaaggata aagatgagaa tggcgatgaa gcgccatcga aagcagggat 120
ttttggaaac atgcaaaatc tctatgaaac tgttaagaag gcccaaattg ttgtccaagt 180
tgaggctgtc cgggtgcaga aggagcttgc agcgtatgca tttatatcat taatttatct 240
atctcttgtc gatgcaaaat agccagcctg tgcgattttt ttctcctatt ttttaagactg 300

<210> 14092

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-H11

<400> 14092

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gcccggaaaa tccgaggcct ggtgtcatca taaatcatcc ccaggggtggc gacgtctatg 180
ctgggggtgcc aaaggattac actgtgcgag aggtcaacgt cgacaatctc ttcgctgttc 240
tgcttggtgaa cataactgct ctcaggggtg ggagcggcaa ggttgtggac agtggcccca 300
atgatcatat atttggtttc tacagtgacc atggnggtcc tgggtgcctt gggatgccta 360
cgtatccata tctctatg 378

<210> 14093

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-H3

<400> 14093

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tgagaggtcc accaaccttg actggtacaa aggcccaacc ctgcttgagg ctcttgacca 120
gatcaccgag cccaagagggc cttcggacaa gcccttgcgt ctgcccctcc aggatgtgta 180

caagattggt ggtattggaa ctgtaccggt tggtcgtgtg gagactggtg tcataagcc 240
 tggatatgga gtcacctttg gtccaactgg cctgactact gaggtgaagt ctgttgagat 300
 gcaccatgag gcgcttcagg aggctcttcc gggcgacaat gttggcttca acgtgaagaa 360
 cgtngctgtc aaggatc 377

<210> 14094
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-H5
 <400> 14094

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 ttcaaaagaa ccagcggcgg tgctctctgg tcaggcgcg acggtccg cgacagagcc 120
 ggacgggtcc cgacctggcg cgaggcgggc gtgctccctg gtcagacg cgacgggtccgc 180
 ggcacagggc cggacgggtcc gcgacctggt gcaggagcta ggatcccctg cctgacggcc 240
 ggacgggttc cgcggtgcga gggcgggcgg aagatcacgc gcggctcctg aatctcgctc 300
 ccgggagggg ccccgtttgg gaggagagat cctaggagtt gtctaggctc gggcagaccg 360
 acctagactn ctctaatacga cgt 383

<210> 14095
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-H6
 <400> 14095

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 tggctgatca ggaggcccca gttgcagttg aggcaccaac ccagttctt ggagagccaa 120
 tggacttgat gactgcgctg cagctggtga tgaagaagtc aagtgtcat gatggacttg 180
 tgaaaggtct tcgagaggct gccaaagcca ttgagaagca tgctgctcag ctttgcgttc 240
 ttgctgagga ctgtgaccag ccagattatg tcaagctggt gaaggcgctc tgtgtgaac 300

acaatgttca ccttgtcact gttcctgctg ctaagactct tggcgagtgg gctgggcttt 360
gcaagattga ctccgagggg caagcaagga aggttgtang ctgcttctgt gtcgttgtca 420
aggactacgg tgaagaatct 440

<210> 14096
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-H9

<400> 14096

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ccgcatgagc ggcggcggcg gcggcggcga ggtcgtaccc cacatcggcg agcggcggcg 120
gcaccgtcgg aggcaaaggc aagatgttcg ggcgcgcgcc gaagaagagc gacaacacca 180
agtactacga gatcctcggn gtgccaagt cggcgtccca ggacgacctc aagaaggcct 240
accgcaaggc tgctatcaag aaccaccccg acaagggcgg tgaccccgag aagttcaagg 300
agctcgcaca agcctatgag gttttgagt atccagagaa acgtgagatt tatgatcagt 360
atggtgaaga tccccttaag gaaggaatgg gcggtggagg atcc 404

<210> 14097
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G2

<400> 14097

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tctctctcgc gtcggcgcgc gcggttgccg gcgacgtcga cgcggaggac ccgctgatcc 120
ggcaggtggt tcccggtgga gatgacaacg atctggagct gaacgcggag tcccacttcc 180
tgagcttcgt gcagcggttc ggcaagtcc acaaggacgc cgacgagcac gcgtaccggc 240
tgtccgtttt caaggccaac ctgcgccgcg cgcgcggcga ccagctgctg gaccgcgcgg 300
cggagcacgg cgtcactaag ttctccgacc tcacgccggc agagttccgg cggacctacc 360
tcggactccg caagtcccgg cgcgctctcc ttagagaact ccgggagtcg gcgcacgagg 420

cgccccgtgct cccaccgat g

441

<210> 14098

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E9

<400> 14098

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ggattgtagt gaactaaata atgattcctg tgggaaaact tcagcccttt gcatgaaatt 120
gaatcggcct gcacttaatg ttacacaagc cacatctgta cctgaccgat tatcttcgtc 180
tttgagaaaa gccagtgaat atgtggccgc aagtgggtgc aaagagacaa aacatttgg 240
ctcagctgtt tgtgatgttg acagaagtgc agaaccaatt gaccgttcaa acaacaatgt 300
gacgagcaac acaatgcgac atagtgcgac tattgtagtg gattcagtga acaatgtggg 360
ggatacagca agcaactctt cactggctac taaatcatcc agtatacaat c 411

<210> 14099

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-F10

<400> 14099

gccttccccct ccggcggcag gtctctctga atgggggggc tccggcaatg gcggctctgg 60
ctccatccaa gattctgggc accaagctca acttcgccgg ctctctccgc tacgccaccg 120
cagcgcacac ccggggggct cagaagatcg tctccctctt cagcaagaag cctgcccaga 180
agcccaagcc ctctgcgggtg tcgtctctct ctccggacat cagcgacgag ctgcgcaagt 240
ggtacgggtc tgacaggagg atctacctgc cggatgggct cttggaccgc tcggagggtac 300
cggagtacct caccggagag gtccttgagg actatggcta cgaccctttt ggctgggca 360
agaagccaga ggacttcgcc aagtaccagg cctacgagct gat 403

<210> 14100

<211> 314

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-F11

 <400> 14100

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 ggaggcgctcg gccatgacgg ggaaggcgaa gccgaagaag cacacggcga aggagatcgc 120
 cgcaagatc gacgcggcga cgacgaaccg gggcgggcggc aaggtcgggc aggcgggatcg 180
 gctagggcag gacaaggggcg ggcacgcgaa gctggcgctgc ccgctctgcc gcaccccggc 240
 gcccgcacatc aagtccatgc agatccacca cgaggcgcgc catcccaagc ttcctttoga 300
 gccggaaaag ctgc 314

<210> 14101
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-F2

 <400> 14101

 actcaacaca gcacaggcag ctgcgagagag agagagagag aaagatgtcg tggttcgggc 60
 accaccacca caaccagcgc gctcccccg cgtcggggccc caaccaggtg ttcaagatct 120
 tctgccgcgc caacgagaac tactgcctgg ccgtccgcga cggcgccgtc gtgctggccc 180
 cgggtcaaccc caaggacgac caccagcact ggtacaagga catgcgcttc agcaccggg 240
 tcaaggacga ggaaggcatg ccggcgcttc cgctcgtaaa caaggccacg gggctcgcca 300
 tcaagcactc cctcgggcag tcccaccgg tcaagctcgc gcctttcaac ccggaccagg 360
 aggacgcgtc ggtgctgtgg acggaagca aggacgtggg caagggttc cgctgcatcc 420
 gcatggtcaa caacaccc 438

<210> 14102
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-F3

<400> 14102

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ctatctgacg ccacggacct cgtggactcg tacacgaacc cgggcccaata cctcctgac 120

cgcgtaccog gcgaggagct caagccggcg tacatgggtca tctcctcgcc gcctaaagcg 180

gggccccggt tcgaattcct cgtcaaaagc gtgccgggag ctaccgcggg gcggtctctgc 240

gccctccgag acgggggatgt tgtggagctc ggcgcggtca cgggggaggg gttccccctc 300

gacaggataa atccgcccga cgtcgcgcag accgtgctca tcttcgcggc ggngacgggg 360

atcagtgcga ttgatcact tatcgagttc ggtttcgctg gcaaagaaag agctgatgtg 420

aggctttatt at 432

<210> 14103

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-F4

<400> 14103

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ccctgcagtg gtgcacctcg cctggctcgt tcagcatcgt gcagccatga agctctgccc 120

tcgccaaagt cctctgggta taccttggtc tccagctcgc cagaccgcgg tcgtccttgc 180

tctcgggtg gccgcgcaca gctttcgcta tccatagccg ccgtcgaagc tcccatggcg 240

ccgttcttcc ctgaagctcc cctgcaccgc gtctctctct ctctggctct cttccagccg 300

tgaagttccc tgcgcgctg cgccatgccg atctccagc gtgcgcgct gcggcgctcc 360

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<210> 14104

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-F5

<400> 14104

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tagaagaagc accagtgcct gatcgatggc ggcccaggct ctctctctcg gccggcagct 120
gctggggcgc cccgtgcagt cggccgtctc taggtcgctg gcgaggaagg cgcccttcgt 180
cgtcaggggc agctccagcc ctccagccaa gcaagggtgcc gacaggcagc tgtgggttcgc 240
gtccaagcag tccctctcct acctcgatgg cacgctgccc ggcgactatg gcttcgaccc 300
gctggggctc tcggaccggg agggcacccg gggcttcctc gagcccaagt ggctggccta 360
cggcgaggtg atcaac 376

<210> 14105
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-F6
<400> 14105

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cgcttcctgt aggcgcgcgc gccggccgcc gccgacggcg cccgacgacg acacagccac 120
agccgccgcc gctgcgacca cggagaagcg gcgcgggagg ctgtcctcgt ctctcgctgc 180
ggggtcggcg tggaagccga cgctgggcgc catctccgag gacgccgcca tgacgtccgc 240
gcccggtggcg caggcgaagg cagcagcggc gccggccagg gccaaaggcga ggtcgctcgc 300
ccgtgccacc cggggcgccg gctacgacga ctccggcac tacggccacc cgacggtgct 360
gccggccttc acgccgacgg cgttcctgtt ctgagcggcg gcgaaccgca ggcaacgc 418

<210> 14106
<211> 161
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-F7
<400> 14106

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ccaccaacag aaccagccta ctccatcatc ataccacccc aaccacttat tcaacatctt 120
ctgccgcacc aactacaact actcctctc catcctctac t 161

<210> 14107
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-F9

 <400> 14107

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 agcctccgcy gccacgcgcc acctggtggc cgccgccgct tccgcctggg cgccgtcggc 120
 gaagccgcgg cagctaagct cacagctcgc gctgccgcgc tcgtcctccc gcgcgcgggc 180
 cccgctccgc gcgaccgcgc gggaggcggt gaccgaggag gcgccaagg ggttcgtggc 240
 cccgcagctg gacccagca cgccgtcccc gatcttcggc ggcagcacgg gcgggctgct 300
 ccgcaaggc 309

<210> 14108
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-G1

 <400> 14108

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 acgggcctcg atctagatcc actcttcccc cttctccttc cggctcctcc ccgagacta 120
 ttcatatagg cgggtaggcg tccgaggcct cgtttgttct cggcttcttg tctccaaggg 180
 tgctactcgc tccgcgcttg gtctgctctc gtccttcggc aggcgcggc gcaacatggc 240
 gaagatcaag ccgaaggcct tgctcgcgca aagcaaggcg aagaaggctc ccggccaaat 300
 cagcgtggcc acgategtca cctacatgat cctcggcgct ctggctgtgt cctccgttta 360
 cgctggctac aggtactgct gngcagtcac agg 393

<210> 14109
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-G11

<400> 14109
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actaggactg catccataca gactagtagc agctcatatt acctttcaaa cagcttaacg 120
acagtctcac gcttgctcac tacatcatcc acaatcagag caccctccac cttgtgctcc 180
gtctcatttt aggcattgag atctttgtga aaacctgac ctgctagact atcacct 238

<210> 14110
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-C8

<400> 14110
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gcctgacctg accacgagag caacatgggc ggaggacacg acatgcacgg gcagcactac 120
ggccacaacg gcggcgtgaa gggcttcgtg tccaacctcg tccacggcgg cgggcgccat 180
ggccatggaa gcggctacgg ccatggccat ggaaacggct actgccatgg gaatggcggc 240
tacagcggca gccacgggta cctactccc gccgccgcgg gcacgtactc tcattcgcac 300
ggcgcgtacc ctcacccgca cggctgccac ggggtaccctc ctacagccaa ctaccccgcg 360
cactcggcgc actacgggca cacggagtcg taccacacca gccacaacag c 411

<210> 14111
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-D1

<400> 14111
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tgacctgacc acgagagcaa catgggcgga ggacacgaca tgcacgggca gcactacggc 120
cacaacggcg gcgtgaaggg cttcgtgtcc aacctcgtcc acggcgccgg cgcccatggc 180
catggaagcg gctacggcca tggccatgga aacggctacg gccatgggaa tggcggctac 240
ggcggcgccc acgggtaccc tntccccgcc ggcgccggcg cgtaccctca tccgcacggg 300

gcgtaccctc acccgcacgg cggccacggg tacccttctt ccggcaccta ccccgcgcac 360
tcggcgcaact acgggcaca 379

<210> 14112
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D11

<400> 14112

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tgggtggcgt gaccggcgcg gccgtctctt tggccttctt cttcttcttc cctggcggcg 180
gcaaaggcaa agggttcggg ttcgcgttcc cgtcggcttc atgccggcaa cttcacattc 240
cgcggcggca ccggcggcgc gcgcgcgctg 270

<210> 14113
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D2

<400> 14113

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gagcgagagc agcacacacg cagctagcta ggagcagcag cagagcagcg gcgatggcgg 120
cctccatgat ctctctgtca gctctggcgg tggcgctca gggcctgccg cccctcggcc 180
gccgcgcctc ctcttctgcc gtcgtctgct ccaagaagaa gatcaagacc gacaagccct 240
acgggattgg gggcggcctg accgtcgacg tcgacaccaa cgggagaaaag ggcaagggca 300
aggcgctgta ccaagtctgc gacaagtaca gcgcgaacgt ctaccgatac aggccaatct 360
acaacgagga tga 373

<210> 14114
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D3

<400> 14114

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ggcacggcca ccgggagtag ctctggccat gaggacctca acggctacct gtgctatcct 120
ccctccgcct acctgctcct cccgtagttt accgctccgc agcttcatcg gtctccggtg 180
gtccgcccc cgtttccagg ttagggagcg agctggtgcg tccgtagcgg ttgtcaatgg 240
caagccggga tgcagcttca gactcggagt acctacttta aatgtttgtc aatctcgcca 300
aaggctctgtt gtcattagaa atgaacatgc tcaaaatgct gaccttocac gaaaatattc 360
aaaaagagag aagaaacat ttcctatccc agtgctggag tt 402

<210> 14115

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D5

<400> 14115

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ttgagcactg tctttgtgca agagaacaat ttagttgtac atacaaacaa aaagaagtgg 180
gagtattttt cagagtttat tagaagagac tgtttcgagg acccaggtca gagaaaggcg 240
agaagcttta gcagcggcaa tgggtctggtc aatggacccg caggtgaccg tccacggcga 300
ctgggtgtca gccgtggtgc cgctgatgaa gctgctgtgc ctggcggtga tcggcctgct 360
cctcgccaac ccgcgggtcc aggtcgtgcc ca 392

<210> 14116

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D9

<400> 14116

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ctgcacactc gtctactacc gagaccgtcg gcggccatcg tcgcacacgc tgtgctcatg 120
ctaagtgtcg aggctcacac gtactactac tacccgaccg cgaggccgag accgaagcta 180
tgcgcctgca aaaacgtctt gcacgaaacc cgcccgcgtg acacagaggc aaatccctgt 240
cgtcacggcg agaggaagag cacgagaaag ggcgacagtg cttattacat cga 293

<210> 14117
<211> 400
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-E10
<400> 14117

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aagcccaaac agcggttgct gaaggcccat cagagggagg aggccatgga gatgagcgac 120
ctggacctgt ggaagcacga gaagccgcca aggatctgcc cttgcccc gtcgctcccg 180
ccgncgncgt cagcgttcga cgaagcggcg ctcgcgccgt cgctcaactt cgccgtggtc 240
gacgacggca tcttccgctc cggattccca gggaccgtca acttccgggt cctcaagtcc 300
ctcaaccttc gctccatcgt gtacctgtgc ccggagccgt acccgngac gaacacggag 360
ttcctagaaa agaattggat caggctccca ccagttcgga 400

<210> 14118
<211> 137
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-E12
<400> 14118

tcaaaatgca ccagggacag cgaagcgacc tcctttcgac cggcgatcgg tcgcagcgcc 60
gatgcccccg cagcccaaag ccgccggcgt catacgtcc gactccggcg cgggacggcg 120
ccagcattgc tcgccg 137

<210> 14119
<211> 429
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E2

<400> 14119

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ctttgcgata ttgctctgct ctgctctgct cccgggctct gctgattgct ggtacttctt 120
gtggaagaac cccgcttttg aaagaacat gctgtatgtc cctgtccacc aaactgacca 180
ccagcttccg tatcggtatg catcttcagt gcttctctgc agaagaaaca acaactccgg 240
tccagagtct tatattgcgc tgccttcaga tgtacatgga ccagaaagaa gtgggtcgatg 300
ccctctgcca ccactcgaag atagagccct gcattactga acttgcttgg cgacaacttg 360
agcatcaaaa tcctctgttt ttcaaggcgt actatatgag actaatgctt aagaatcaaa 420
taatggtct 429

<210> 14120

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-E4

<400> 14120

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tccaacaacg agtcgtggtg ccagggcctg gacggcctgg cgtcccgcga ggccgcctac 120
taccagcagg gcgcgcggtt cgccaagtgg cgcaccgtcg tcagcatccc taacggcccc 180
tccgagctcg ccgtcaagga ggccgctgg gggctcgcac gctacgccgc catctcacag 240
gacaacgggc ttgtgccgat cgtggagccg gagatcctgc tggacggcga gcacggcatc 300
gagcgcacgt tcgaggtggc gcataaggtg tgggccgaaa ccttctacgc catggcggag 360
aacaacgtca tgttcgaggg catnctgctg aagccgttca tggtgac 407

<210> 14121

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E5

<400> 14121

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gtgaagctga tgaagcgctt gatactgtca ctggagacat tgtattcgtc ctccagcaga 120
aggatcactc caaattcaaa agaaaggggtg aagatctctt ctatgagcac accttgtctc 180
tgaccgaagc actatgtggg ttccaatttg ttcttacaca tctggacaac aggcagcttc 240
tcatcaaata agacctggt gaagttgtta aacctgacca attcaaggcg attaatagatg 300
aggggatgcc aatttaccag aggcctttca tgaaggggaa gctgtacatc catttcacgg 360
tggagttccc tgactcgttg gcaccagagc agtgcaaggc tctcgagaca gtact 415

<210> 14122

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-C6

<400> 14122

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cggagggcag cggctcgcgc cgtgtccgtc gctcgtccgc ggaactcccg ccccgacgct 120
cgtcctcagg cccaccccg acggccgtgg ccatggcctc ctcgcgcaca ccggccccctc 180
tccctcctcg cggtgccgcg ccgtcgccgc cgaggtcggg ggctcaaca tcgccaaaga 240
cgtcaccag ctcacggca acacaccaat ggtgtatctc aacaacgtcg tcaagggatc 300
tgtcgccaat gtcgctgcta agctcgagat tatggagccc tgctgtagcg tgaaggacag 360
gatagggtag agtatgataa atgatgctga acagaagggc tngattactc ctggaaa 417

<210> 14123

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B11

<400> 14123

ggttcccttt cctcgagttt cctattttcg tctcctcccc acagcagccc ggccaagacc 60

ctagtaagca aaccaccgga gcagcggcgc ttgcgcgggc ggagccatgg cggacgacga 120
 ttacaacaaa aattgacatg gggatatgagg atgagccccc agaaccggag attgaggaag 180
 gagctgaaga agagcctgag aacaacgaag atgccctga tgacgtcata ggtggtgagg 240
 gtgaagataa ggaacaggaa aagaccaagc gtgaacgcaa aacaacaaaa tacatgacga 300
 agtacgaacg tgcgcgcata ctgggtacac gagccttgca gataagcatg aatgctccag 360
 tcatggttga gcttgagggt gaaactgacc ctactgagat tgcaatg 407

<210> 14124

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B12

<400> 14124

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 gagccatcga tcgctagcta gctgacgacc atggcgctcc tctcctctgc cgccatcacc 120
 gcccttcct tcacggccgc gcccgctcgc gcagtgggtca gcaggagggtc cttcacctgtg 180
 cgtgcctctc tccgcaaggc cactgccacc gccgcctgtg ccgttgccgc cagcgtcctg 240
 cttgccggcg gcggcgccat ggcccaggag gtgctgctgg gcgcaggcga cggcggggtc 300
 gtcttcgagc ccagccagtt caccgtcaag gccggcgaca ccacacatt caagaacaac 360
 gccggcttcc cgcacaacgt cgtgttcgac gaaga 395

<210> 14125

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-B3

<400> 14125

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 gaggagctcc tcgcatcgga gcagccgccg atcaacctgc gctcgggctc agcgtggaa 120
 ggtgttgga gagaatagcc tgaagggtca cagtaacctt catctgttgg aagatgtatc 180
 gggctaagag ggctgcattg tcaccgaagg tgaagcgccg cgtcggcaag tacgagctcg 240

ggcgcacccat tggggaaggg acctttgcc aaggtccggtt tgctaagaac accgaaaacg 300
 gggaacctgt tgctatcaaa atccttgaca aggagaaggt taagaggcac agattgggtg 360
 agcagattaa gcgtgaaatt tgcacatga aattagtaag gcaccctatt gtagatcgac 420
 tgtttgaggt gatgggaaag taaa 444

<210> 14126
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-045-Q1-K1-B4
 <400> 14126

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 cagctccggc ggcgacctgt tctccagcgg caagctggtg gcgggggccc ccgtgtcggg 120
 gttccagcag aagagcgtgg agaacgtcga caagcaggag gtcgccggcg cggcgccga 180
 gtcctgcac gcggcgctcc cgtacggtaa gtcgacgac aagccggccc ggcagtacgt 240
 cgagaaggcc gaggggtact tgaaggagtt cagcgcgggc gcgggacacg ccaccgagca 300
 ggagcagcct gcggcggcag caggcgacga cgcggcgccc 340

<210> 14127
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-045-Q1-K1-B5
 <400> 14127

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 tgcgtagatc gatccatcgg gcgctagcta gctgacgacc atggcgctccc tctactctgc 120
 cgccatcacc gccccttctc tcacggccga gcccgtctgc gcagtgggtc ccaggaggtc 180
 cttcaccgtg cgtgcctctc tccgcaaggc cactgccacc gccgacgtgg ccgttgccgc 240
 cagcgtctctg cttgccagcg gcggcgccat ggcccaggac gtgctgctgg gcgcatgcga 300
 cggcggggtc gtcttcgagc ccaaccagtt caccgtcaag gccggcgaca ccatcacctt 360
 caagaacaac gccggcttcc cgcacaacg 389

<210> 14128
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-B8

 <400> 14128

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 aagagagtcc tttctaggtg agtaggtgtc ctcttacgcy tgggtgagag aaccactag 120
 gagccacagc cacctcacag tctgttctcc tgttggtatcg ggaggagcag agccgacgcy 180
 acgggatcaa gatttgtatt tgaaccgga cgacgggagg agtacgaggc ccagtcatgg 240
 aggaggagaa gcaagtgatg gaggggtgccg ctacggcgcc gaggcggcgg ctggtgatcg 300
 ggggtggggtt ctgggtgcag ggcttcggc tcttcccggtg gctgggcgctc aatttcttcc 360
 tcagggacgg catgggcgtt gctgcctcct cgctgc 396

<210> 14129
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-B9

 <400> 14129

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 aatctatgct ttgcttgga ttcctctgtc atatttgata tggtagaggc cactctaccg 120
 tgcaatgagg actaacagtg ctttcagttt tggatggttt ttcctgtgtt acctgatcca 180
 cattggtttt tgcataattg ctgccattgc tccaccaatt gtatttcatg ggaaatcatt 240
 aactgggtatt ctggctgcga ttgacacttt ctctgaacat gtgataattg ggatctttta 300
 ctttgtgggg tttgactgt tttgtctgga gacactgctg agcattgggg ttttcagaa 360
 agtgtacatg tacttcagag ggaacaagtg aagccagtca tgatg 405

<210> 14130
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-C1

<400> 14130

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tagaagaagc accagtgcct gatcgatggc ggcccaggct ctctctccg gccggcagct 120
gctgggccgc cccgtgcagt cggccgtctc taggtcgtcg gcgaggaagg cgcccttcgt 180
cgtcagggcc agctccagcc ctccagccaa gcaaggtgcc gacaggcagc tgtggttcgc 240
gtccaagcag tccctctcct acctcgatgg cacgctgccc ggcgactatg gtttcgaccc 300
gctgggcctc tcggaccgg agggcaccgg gggcttcac gagcccaagt ggctggccta 360
tggcgaggtg atcaacggcc gctacgcat gct 393

<210> 14131

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-C2

<400> 14131

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cttactacca ggaggtggac tactgctcgg aggaggtgag gtcggtggcc ccggccggct 120
tcggccgcca cggaggcggc gtcagcagc acgtcgtaa ggagaagttc gaggaggtcg 180
acacggtctc acgcgcggc gccaaaccacc accaccacca ccatggtcac cacggcggcc 240
acggcttcgt ggtgcgcgag accagggtcg aggaggacat caacacctgc accggcgagg 300
tccacgagcg caggagagc ttctcgcca gggctaactg agccgcccgg cggccggcat 360
ccacgcccgt tcgtgcctgc ctgcgtgcct tatgtatgtc t 401

<210> 14132

<211> 376

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-C3

<400> 14132

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agtaaaggga gataacttgcc gcgttgggat tctccaactc caaccaagac gaacgatttc 120
atcccactaa tectttttct tttcttttcg tttttatttt taattttcttg gttcggttct 180
tgatcacctg ttcttcccta tgaccttatac caggaaatta gattatcagg tgcttctatt 240
tgtttgtgca tctcttgttt gcgcctgcga tctggacctt ttttggctcc tcaacaaaag 300
agaagatgag nccttctngt tggtagttac aaccggtggc gtctctggtt gtgcagggtgc 360
atthttgtgtg aggtatc 376

<210> 14133
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-C4
<400> 14133

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aggtgcacga gctgcggggg aagagcaagg cggatctgca agcgcagctt aaggagttha 120
agtcggagct ctccctgcta cgcgtagcca aggtcacggc cggggctccc aacaagctct 180
ccaagatcaa ggttgtgcgc acctccatcg cgcgcgtgct gaccgtcatc tcgcagaagc 240
agaagtcggc gctgcgtgag gcgtacaaga agaagaagct gctcccgtc gacctccgcc 300
ccaagaagac ccgcgccatc cgcaggcgcc tcaccaagca ccagctctcc ttgaagaccg 360
agagggaaaa gaagcgtgag aagtatttcc ccatgaggaa gtacgctatc aaggcctaga 420
tcagtgaag aacatt 436

<210> 14134
<211> 284
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-C5
<400> 14134

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caccatggcc ctctctcca cggccttcgc cggcaaggcc gtgaacgtgc cgtcgtcgtc 120
cgccttcggc gaggcctgcg tgacgattcg caagacttcg gctaaggcca tgccggccgc 180

agcattcttc actatttacc gtgttttctt tgtttattgt ataagatcgg agcttgtcgt 240
catcgctttc ccgaacgcac ttgatgctgt tactgtctgt tate 284

<210> 14135
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H3

<400> 14135

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agttggcgac gaacagtttg ccacttcttc cacaagctcg aggacggtca atgaccttgc 180
tgtctcctcc ttgaggaagg cacgtcgagc ttgatctatg gcgtgcttgg tctccacttc 240
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tttggaccct ccttgcttca tgttgcccag gcagacgtcg accttggcaa ggtgctcttg 360
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ggacatggtg g 431

<210> 14136
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H4

<400> 14136

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<210> 14137
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H5

<400> 14137

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tttcaggcgg gtacgggacc tgggcggcga cttcaatctc gtccgcggga aggttgagac 180
ggcgggggct ggaggtggtg tgcgaggcca cgaccgggcg gcggccggac tcggttaaga 240
agagggagcg ccagaacgac aagcaccgca tccgcaatca cgcgcgcaag gccgagatgc 300
gcactaggat gaaaaaggtc ttaagagctc ttgaaaagct taggaagaaa cctgacgcgc 360
agcctgaaga aataattgag atagagaagc tgatcgctga ggcatacaaa gccatcg 417

<210> 14138
<211> 406
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-H6
<400> 14138

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tgtttcttaa attctcagac atatatccac gagcattcgt cattcaaagc agacacatat 120
acatacaact ctatgcttga agcatctgcc tctgccaac agtgggaata cttcgaatat 180
gtgtatagag agatggctct gtctcatcac tgtctagatc aaagcanata ttcattggtt 240
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ctngaaagag gagagatccc tgatgtacag ttgattactg aatcgatatg ccagtctatt 360
gctcatagag attatggaag gacgctgcag ctcttgaata taatga 406

<210> 14139
<211> 439
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-H7
<400> 14139

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cccaccgtct ccatggtcgt ccgcgcctcc gcctacgccg atgagctcgt gaagaccgcg 180
 aaaacgatcg cgtcgccggg gcggggcacc ctggcgatgg acgagtcgaa cgcgacgtgc 240
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 acgtgctgg tcacggcgcc gggcctgggc cagtacatct ccggcgccat ccttttcgag 360
 gagacgtgt accagtccgn cgtcgacggc cgcaagatcg tggacatcct ggtggagcag 420
 ggcatcgtgc cggggatca 439

<210> 14140
 <211> 156
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-H8
 <400> 14140

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 atgttccagc tgggaataaa aaaagcagcc gcaatg 156

<210> 14141
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-045-Q1-K1-A11
 <400> 14141

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 gggcctcctc ccaccgacat ccaaagacaa gtcccagctg gacataccgc tagacgggct 120
 cacaccacta cgcctaagag acatggtgtt ctcgcccact actacacatg cgaacatgac 180
 agagtgccta aaatgcctgg tcgacgcaac gaggagtgtt tccggcgtca tattcaacac 240
 cttccgagac ctggaggact ccgacctcca gaggatcgcc aatggcgtcg tcggagtgcc 300
 gatctatcct gtcggccccc tccacaagat ctctccatgc accgaggaca gcttactggc 360
 gccggaccgg gcgtgtctag agtggctgga caagcaag 398

<210> 14142
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-A2

 <400> 14142

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 gcaagatcgc cgagaagtac ctgtcggaga aggcggcggc ggcggtgcat gcgctgctgc 180
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 actaccactg ggccagcccg ctccactacg ccaacacccg tcaagtctgc aacttcaagt 300
 attctcggga ctgccacaat tctcgtggcc agcaagggat gtgcgtcgtc ggggctatca 360
 acaactacac ggacc 375

<210> 14143
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-A3

 <400> 14143

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 gtgacgatgc gcaagacggc ggcgaaggcc aagccagcgg cggcgtccgg gagcccgtgg 240
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 acgggcgagt tcccgggcga ctacggctgg gacaccgcgg ggctgtcggc ggacccggag 360
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 c 421

<210> 14144
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-A4

<400> 14144

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accacaacgg cgtcgtcgtt gaacccccaac gcgcgcgtct tcatccccggc ggcggtaccgg 180
caggtggagg acttctcgcc cgagtgggtg gagctcgtca acaccaccgc ctgggttccgg 240
gaccactgct tccggcagcg ccagctccac gaggccgnet gcgacgacgt cgcgcgcgtc 300
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<210> 14145
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-F3

<400> 14145

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caacacaaca taactcatcc aaagtatctc agacgactca ccaaatcacg aaacccaatt 180
ataaaatgca ttcttatatg aacagtgcct aaccgcatag ataattctac attaaccogt 240
caatttttga tccaattcag cattttttctt cccaagtttc tgcaagaaat tgcaataata 300
tcgattcata catatgaaaa aattctctat ttatacaaac gctttaccta cagcataatc 360
atacacgaat actgaaaaat caaaatgaaa taaataaaaa ataa 404

<210> 14146
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-F7

<400> 14146

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 cggcagcggg gtggactggg agagcctggc ggaggccacc tccggggcaa tcggctcgct 120
 cgtcagcacc accgtgctct acccgctaga catctgcaag accaagttcc aggccgagct 180
 tcagacgcac cagggcgcgc agaagaaata taggaacctt tcagatgtgt tctgggaagc 240
 gatttgtaaa aggcaatttt tgtccctata tcagggcctt aacacgaaga acatccagtc 300
 ttttggttcc tcgttttttt atttttatgg gtatagctat tttaaaagac tctacctgga 360
 gaagagtgga gcanagtcta ttggaacaac agcccaattt gttagttgca gct 413

<210> 14147

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-G1

<400> 14147

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 gccagtcttc tcgctttctc accgcgattc gcctcgcttc catccgattc gattcgggag 120
 ctagaggaga gagaggagag gagaggcagt gatgccgctg gctgagtcgc ccccgtagcg 180
 ccgcaaggcc acagatttct tctccacgtc cagtgtcaag ctgaagcagg caggccaatc 240
 ggccgggggat aatatagttg atgttgctgg gaaggttggg tccgtggtga agagtcggtg 300
 ggctgtcttc caagaggcta ggcagcagca gcagcagcag caacgtccgc cgcagtgcag 360
 agtgcaagag cgtatcatca ct 382

<210> 14148

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-G2

<400> 14148

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 gcgcacgcgc agcgactgcc ggcgatggcg agcctcaccg tgccgcccgc gcccccaac 120
 ccacgccagg acgccatcga cctccacaag gccttcaaag ggtttggatg tgacagtaca 180

acagtgataa acatacttac tcatcgcgat tcggtgcagc gtggactcat tcaacaggaa 240
 tacagggcta tgtatcatga ggaactctcc caccgtatct catctgaact cagtggaaac 300
 cacaagaaag ctatgtcgct gtggattctt gatcctgctg gacgtgatgc aactgttttg 360
 agagaagctc taaatggtga cactatggat ctgagagcag ccaactgagat tatatgttcc 420
 aggacaccat cacag 435

<210> 14149
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-G3

<400> 14149

ggttcccttt cctcgagttt cctatcttctg tctcctcccc acagcagccc ggccaagacg 60
 gtagtaagca aaccaccgga gcagcggcgc ttgcgcgggc ggagccatgg cggacgacga 120
 ttacaacaaa aattgacatg gggatatgagg atgagcccc agaaccggag attgaggaag 180
 gagctgaaga agagcctgag aacaacgaag atgcccctga tgacgtcata ggtggtgagg 240
 gtgaagataa ggaacaggaa aagaccaagc gtgaacgcaa aacaacaaaa tacatgacga 300
 agtacgaacg tgcgcgcctc ctgngtacac gagccttgca gataagcatg aatgctccag 360
 tcatggttga gcttgagggt gaaactgacc ctcttgagat tgcaatgaag gagctgagag 420
 cgcgcaagat accct 435

<210> 14150
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-G4

<400> 14150

cgcgaggcgg ccgacatgat caagaagggc aagatgtgcg tgctgttcat caacgagctg 60
 gacgccggcg cgggtcggat gggcggcacg acgcagtaca cggatgaaca ccagatggtg 120
 aacgcgacgc tgatgaacat cgcgcgacaac cccaccaacg tgcagctccc ggggatgtac 180
 aacaaggagg agaacccccg cgtgcccctc atcgtgacgg gcaacgactt ctgcagcgtg 240

tacgcgccgc tgatccgcga cgggcgcgatg gacaagttct actgtgctcc caccgcgag 300
gaccgcgtgg gcgtgtgcaa gggcatcttc cgcagcgacg gcgtccccga cgaggacgtg 360
gtgaggctgg tggacgcctt cccgggccag tccatcgact tcttcggcgc ccttcgcgcc 420
agggtgtacg acga 434

<210> 14151

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-G5

<400> 14151

ctttctcatt ccacctcctt ctcaatcacc tctatcttca acaccaccat actctacca 60
ctatacatct tctataccaa catccaatcc caacttcaca cacaaccatt ctacacaaat 120
aaatctacta accttcacac tatcttctat taatctatat ttaaaacaca attataactcc 180
ctatatactc accttaacac taacaacatc cattcttata tttcctacat tctttattca 240
tataacctata catat 255

<210> 14152

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-G7

<400> 14152

gcgtagtgcg gagctccagt gaaggaacca aacagcgcaa cacacgaaca caccaggcgg 60
caggctccac cccgtccttt tectgccttt tcccccgctc gagttaatcc atccagtcgc 120
caaaagcttt gctaaaatttc acgtgtctcg cctcgagtcg tccctaatacc gacgatgcct 180
tggtctactc ctaaaaaaac ccaaagatcc tgactttctc ttgctgctag cctccctttt 240
cccttctccc ttaatcgcac tggtggaagc tcttcgctgt cacccccacc cacctccggc 300
gctctttttt agcatcttcc ttgggctctg gactccaaaa tcccagcctt ttgtttgctt 360
ctctgtctcc tgctgattgg tgtcnccggg tccaggactc ttgatttgct cctcgcgggg 420

ttcgggtccca t 431

<210> 14153
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-G8

<400> 14153

accaaagcca tcggaggagc aactggacga ccatggcctc gccgctgctc aagtcgcact 60
ctcagctcgc cgccgccgcc gccctgcact ccgtgaggag agccgaccgc tgccctgcga 120
cactacacct gggcaagttc catgaccacg ggctcaggtc cggccgttct aagagatccg 180
gttcagcgag ggtgggcgcc ttcccgtcgc tggacgtggt gccgctgatg gtgacgatgg 240
tggagcacgt ggacatgtcg cgggactacg tcgtgaccaa gtccatctgg catctcagcg 300
acgtagccct caagagcgtc tataccttct acgccatgtt caccgtctgg ggagtctgct 360
tcttcgcgtc catgaaggat ccttcttacg acagcgagac gtacaggagc cagngtggcg 420
acgggaccgt gcactggtac ta 442

<210> 14154
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-H1

<400> 14154

cgggctgcga gcgccacgcg tctcgggtgga gcgtctcgcg taccggtctc cggctcatca 60
ctttcctctc ggttgcgtgc tcttcacga tcggcnaggt tcatcncctt catgcctcgt 120
catctggagc ctcgctcggc cctaccagct cgcattgtac ccccggtccc gccgtgtctg 180
ttccctggtt cgtcattcaa gcgcccaggt cgagccatcg ccccgcttgg gaaatggcag 240
ccacggctca tcncnncgtc tcgaacctcc atccagcttc ctcacaattc ccttgnntc 300
cttggcgcct tcgcaaagg gccctctc cttcaaatct t 341

<210> 14155

<211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-F1

 <400> 14155

 cctacaccat tctctcccta actctccttt ccattcacct cccctccccc tcccatcact 60
 tatcctttct ccatccataa cccacatcc attccccaca ccaccaatcc aatctcttct 120
 ccacataaca tactcccaact cctctactcc cctcctcctt aactactttt cactcatata 180
 tcttatcaat ttttatctct totaaccttc ttctcccatc t 221

<210> 14156
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-D12

 <400> 14156

 caggacctgt cactccgtct gtccatcgac ggtgagaaga gctcgctgaa cactaaggat 60
 gcactgtggt tcgaccccca ggatcaagtg cagaagatca tgaacaacat caagcagtcg 120
 tcagcgcttc ctccgtccat gtctctcagtc gcagccgagg gcacaggcag caccatgaac 180
 aaatacccac tcctgcgcgc gcgcgcgcgc ttgttcgtca tagctgtgga ctgctaccag 240
 gacgatggcc gtgctagcaa gaagatgctg caggatgatcc aagaagtttt cagagcagtc 300
 cgatcggact tccagatggt caagatctca ggggtcacgc tgt 343

<210> 14157
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-D2

 <400> 14157

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 ctctccaatc ttctttctct ttctttgatc accagccagg ccaaccgcag atataactcc 120
 ttccgattct cccctccgtg gactccgctt gattcgacaa aagtatatga ccactcgacg 180

atcacaagaa gtagcagatt gctagctagg aacttgggtgt ctccggccgt gctccatttg 240
atcgtgaaag aacacagctg caacaccgtg gctttccgtt tgcttgatcg tctcccaatg 300
ctgccaagga acctaccgaa tctctccctc cagataagcc cgccaccgcg cgcgcatct 360
gacgcaccgg cgacgtattc cgaaggaagc gacgaggtag ggttcttcgc aaaccctagc 420
tccggcgcg 430

<210> 14158
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-D3

<400> 14158
cccactctac ccactcatcc aatccttctt ctccatcatt atcctttctt ttccactcat 60
tctctctctc tctctgtcgg tctcctatca tctttcccat cctctaata ccaaacatac 120
caaccatcat aaataacctc tccccaatct acacttccat cactacaatt aattcctcta 180
aacattatta ccaactcaacc atcacatcaa atcccaacat ccatactctt aacctcatta 240
atctcatcaa tcttcatttc atcatcaatt aacacatcta cctcacccca tctacnactc 300
tccttcatcc tcttaccatt ctttcaacta acactacc 338

<210> 14159
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-D6

<400> 14159
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gagtgatcga gctagctgag ctccgatcct cgctagctag gataccgcca taccacaagt 120
cttcttcaca agtttaggag tgacagcaac aagagatcga tggcctctgc caccgtgctc 180
aagtcctcct tcttcccaa gaagtccgaa tggggcgcca ccaggcaggc cgccgcgccc 240
aggccgcca cgtctccat ggtcgtccgc gcctccgctt acgccgatga gctcgtgaag 300

accgcgaaaa cgatcgcgtc gccggggcgg ggcatacctgg cgatggacga gtcgaacgcg 360
acgtgcgggga agcggctggc gtccatcggg ctggagaaca cggaggccaa ccggcagggc 420
taccgnacgc tgctggtcac 440

<210> 14160
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D7

<400> 14160

cctgtcgttg tgagaattct taattcatga gttgtaggga gggacttatg tcgccggaaa 60
cagaaactaa agcaagtgtt ggatttaaag ctgggtgttaa ggattataaa ttgacttact 120
acaccccgga gtacgaaacc aaggatactg atatcttggc agcattccga gtaactcctc 180
agctcggggt tccgcctgaa gaagcaggag ctgcagtagc tgcggaatct tctactggta 240
catggacaac tgtttggact gatggactta ccagtcttga tcgttacaaa ggacgatgct 300
atcacatcga gcccgttcct ggggaccag atcaatatat ctgttatgta gcttatccat 360
tagacctatt tgaagagggt tctgttacta acatgtttac ttccattgtg ggtaacgtat 420
ttggtttcaa agccttacc 439

<210> 14161
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D8

<400> 14161

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cgggcagtca gcggcgctca agagtcacga gcttactggg tgtaagcaac gatcgacgaa 120
cgaaggggtg tagggagtgg aagcaagagg ctcagcgttc tgttcatgga gagccgcaag 180
gaggagcagg cggcgggtgg gtggatgacg gtgccggcgt tcggggagtg ggacgtgaag 240
aacggcgccg tgccggacta ctccatggac ttctccaaga tccgcgagat gcgcaagcag 300
aacaggcgcg agctctcccg ggccagcctc ggcggcgggc acgacgacga cgacgaccta 360

ctccagaaga agcagcagca gcagcaggag gaggggaagca aggcccag

408

<210> 14162

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-E10

<400> 14162

acgggtccgga ttccccggtgg cgcacgcgtc cgtgctgctc caatccgctc ttttatgact 60
cggccagcgg aaggggagag aggaggggga gaggacggtg gagaaggtgg acgcggggct 120
ttccgacttc gacgcccact tcgatcgctt cttcgcttcc ccggacgccg cctccgacgg 180
caaggtgaag ctgctgctct tcctggccga ccgcaagcct gactcctccc tctcctggtg 240
ccccgactgc aacgtggcgg agccggtgat ctacgagcgg ctggaggcac tggagggcaa 300
ggacgcggtg ctctgcgcg cctacgtcgg ggacaagccc acttggcgtg acccggcgca 360
cccgtggagg gtggacccca ggttcgggct caagggcgtg ccaacgctga tccg 414

<210> 14163

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-E3

<400> 14163

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cggaatcccc tccaaaaacc caccataccg tctcccccat ctgcaagaac aagatcagga 120
gagcatccta gggggaagaa acaggagggg gaaaaagaag ccagaaaga ccaactgacc 180
aaacaaaaag gtggcatctt tgtgtcaccg aggcaccgcc gatcacagac caaagccgc 240
tcctctggtc catcccaagc gtacagcagc cgagatttct tcgatctgcg cctgcgtttt 300
tttttcttgt aaagatttta gttttcccc cttcaactgt tgctagcctt gagtcgctga 360
gaagtttcga aaaggggtgg tgtgagtgtc ggatagctca ggatggatcc ggcgttgctg 420
gacgacgtca tacgccggt t 441

<210> 14164

<211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-E4

 <400> 14164

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 acatctccaa taacaatatc cacatatcat cctacacaca ccaaacctca ccctcaaaat 180
 caaccccaaca aacaccaact caccaaactc atatcctcca tctacctatc atcaattcac 240
 cacctatcac aaaccaatca ccactcctct attacatcct acaccttcaa caacctacac 300
 tcattccatc ctactaaca tcaattttta tcttaaacac attacctttc cacatttcaa 360

<210> 14165
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-E5

 <400> 14165

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 gcaccacct cccgaatggt caccaccaat tccaatccct acgcttcgat gccgcaccgc 120
 gcgtaaggcg ctgccaaagg cgctcgacct tgaggtagcg tegtctgcgg gaagcacctg 180
 aagaatgtca actggcgccg tggcgacctc cgtgcctacg tegtgggtgta ccttgacccc 240
 tcccgccgcg ccgtacccg ccccgacgac ggcggcgggg gcaaaccaac ctggaacgag 300
 cgctcggtcc tcccgttcc gcccacctc tcccgcacg acccctccat cctcctgtcc 360
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<210> 14166
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-E6

 <400> 14166

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 accgccctcc cgctgccgtc cgggaacgacg cagaggccgt ctgcccaggg ccgcctctctc 120
 ttcaccgccg cgcccgcccg ctccctccgc ctccgccccg ccggccgccg gtcggcccg 180
 tctcgcctc gggccaccaa ggctgtggtg gcagcgttg ctgatcctct caaggctcatg 240
 atatcaggag ctccggcgtc cggcaagggc acacagtgcg agctcatcaa gaccaaatat 300
 caactggcgc acatctccgc cggagatttg ttgcgggcgg agatcgctgc tggctctgag 360
 aatgggaagc gggccaagga attcatggag aagggccagc tcgtgcctga tgagatngtc 420
 gttaatatg 429

<210> 14167
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-E7
 <400> 14167

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 ccgccagcca ccctcgccgt cgggtcgctt tgccacgtcg ccgcccgccg ccccggccca 120
 ccacctgagg ccggtcgccc atccataacg cccgcagtcc agtccccacc aggcaccagc 180
 ccacatctct tctccacag aacagactcc cagccgtct cggccccctc cccttcacgg 240
 ctttgcgcgc gtagatcgga ggaatggtga gcgcgtcgag cctgctgctc ccgtcgctcg 300
 tgcgggacct ggctcctgc gtctccgacg gcgccgtccg cgtcgctgc accaccccg 360
 cgtccacgtt caggtctcc tctccttg cgtcgccgcc gtccacgc 408

<210> 14168
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-E8
 <400> 14168

gaaagatatg gcacaatcaa gcactcaaga ccaagcgact aagctagatg ctgccggccg 60
 ggagctcatc acaacctacg atgagcttaa tccaactctg gtcgatgaat tatgggaaga 120

gccaaagcgct cttgagttct tgcagtatgt tgcgaggaat cggccatttg ttgtaagaaa 180
 aggtgctcaa gactggactg ctgttcaaaa gtgggactcg cactatcttc tcaatgttct 240
 tgggaacagt ctgtcaatg tagcaatcac tcctttcggc aacgcatatg cagtgttgaa 300
 agaagaagat ggttcactat cctatgtcag gccactcgaa cggctcgagc ctttogacat 360
 ggtcatccgc tacatttcag agcaggagtt gaatcagtca ggaccta 407

<210> 14169

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D11

<400> 14169

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 taccgcgggg cttatgcaat cgatcggatc atatagatat cccttcaaca caacatatgt 120
 catcgaaagg atctcggact actcaccaaa tcacgaaagc catttataaa atggattcct 180
 atttgaagag tgcctaaccg catggataat ctcacattaa cccgtcaatt tttgatccaa 240
 ttctttattt ttcttggtaa ttttctggaa gaaattttaa taatatogac tcatacagaa 300
 gaaaaagttc tctattgatt caa 323

<210> 14170

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-B7

<400> 14170

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 caatgtaggc tcaatctaaa cgctgtcccc ttccctcacc aaaaccctan ctcacacct 120
 caccaccatt ctgtccacta tcctattcca ctgtcctct ccccatctct cttgccatca 180
 catctgatgt tcttctccca caacgcattc ctctacctgt acccatcta ctcaccaacc 240
 tccatgactt cctctaataa cgttactacc cattacgagt gataacttaa gtttactac 300

atcaagatac tcaactatga catgaaccgc ctgctcatta acttcct 347

<210> 14171

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C12

<400> 14171

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atttggcatt accaaaaact cctaatagata actctctgtc attgtttgct gatccccctg 120

ttccagagag attttattgt gcgcattggtg gggggcttga catggtcaca ctgcacttcc 180

taccattttc ataccctgaa atgtcttcga caccaccctc tgtgcatact gtcctcacta 240

cagggaaacag cgaaacaagc tcaccttttc tttctggatt tgttaccata gctgatgcat 300

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aaggtttgaa ag 372

<210> 14172

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C2

<400> 14172

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gagatcaatt ctgcgcaaca caagcttga taaggaattc attgcgaaag caataacttt 120

gcctggtcaa ggggagatta tggatatgat ggaagttgca gatcctgatg cagttcatgc 180

tgtccgtaac ttattaaga aagagcttgc cgtgcaactt aaagatgata ttcttgccggc 240

tgtgaaaagc aacaggagtt ctgaggctta cacatttaac catgatagta tggctcgccg 300

tgcattaaaa aatacatgcc ttgcataccc tgcgtcattg aatgagccag aattcgttga 360

gcttgactg catgagtaca agtctgcgac taacatga 398

<210> 14173

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-C4

<400> 14173

caaacactgc ccgagacata gacagcggga cgctcgagatg gccgacggng aggacggcgg 60

cgncgcgcgc cgncggggccg ncatcacaga ctaccgcaag aagctgctca actgcaggga 120

gctagagtcg cgcgtcggca ccgtgagaga aagccttaaa actgcaaaga aggattttac 180

caagactgag gacgacttaa agtctctgca gagtgtgggg caaataattg gagaagtact 240

ccgacctctt gataatgaac gctntatcgt gaaggccagc agtgggtccc gatacgtggt 300

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<210> 14174

<211> 425

<212> DNA

<213> Zea mays

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<400> 14174

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gcagcgcgcgc gcagcagcag cagcaaccgc acgccgtgtg cctgccgtac ccagcgcagg 180

gccacatcac ccgatgctc aacgtggcga agctgctgca cgcccggggc ttccacgtca 240

ccttcgtcaa caccgagtac aaccaggcgc gcctcgtccg gaccgcggg gcggcgggccg 300

tggccggcct ccggggcttc cgcttcgcca ccatccccga cggcctgccg ccgtcggagg 360

acgacgacgt cagcaggac atcccctcgc tgtgcaagtc caccacggag acctgcctcg 420

gtccc 425

<210> 14175

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C6

<400> 14175

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togccccca tcatcatcag caaccgcact ccatgtgcct gccataccca tgcgaagacc 180

acatcacccc tatactcaac gtgtcgaatc tgctacacac ccggagcttc cacgtcacct 240

togtcaacac cgactacaac tcaggcacgc ctctgccgga cccgctatac tgctgccttg 300

gccaacctac ctgacttccg cttcgccacc atccccgacg tcctgc 346

<210> 14176

<211> 268

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-C7

<400> 14176

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gcttattcag aattttacac acacancaca ctcatatctt ctatcaccac catttnttct 120

ctcatcatct cctctcatca tcatcatcaa cctcactcct tatacctacc ttacccatct 180

catttcacac tccccctat tctcaacttt tctaattctc tacactccct attctttcac 240

ttcaccttca tcaacaccta ttacaacc 268

<210> 14177

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C8

<400> 14177

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catgcgggtc ttcgcaaaca tctgcaacgc tggcatcctt cctgaagcag tgtcgaaggt 120

cgctgctcag gcttgcacca gcattccttc caaccctgg agttctatcc acaagggttt 180

tagcgcttaa gaatcgtaag gtgaggcgaa atatttcagc cgctccaccg caacgaactg 240

gtttacatta ccagtcctca ggggggtcct agttcttgaa ccactattat agctgttcca 300
ccgttccaga ttacatagct atgcccaatt tccggtgtac atattatagt cggaaagtta 360
tttggaatt gtattggtcg ttgctgtata tattccctat agtttgtag cagatgtgta 420
gtttgtgatt ccattaaaat ga 442

<210> 14178
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-D1
<400> 14178

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gccc aaatcg agaggtacag cacgaaaaag agaggcaaga gagatagggg accggagggc 180
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gccgccgcgc cgaggaggcg ccggaggagg agggccaaca gggccgncca gctgctgggg 360
gctgctgcgc gtgcgccgca gcagtggcgc cctcgcctcg gcgacatctg cgaggagta 419

<210> 14179
<211> 442
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-B6
<400> 14179

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gtccgctgtc ctagtcgcgc gtcgcgcgcc ccatctctct tgccgtcgca tctgatgttc 180
ttctcccgca acgattccg cgacctggac cccatcgact cgccggcctc catggcgctc 240
tcgaagaagg ttgcgacctg tgacgagtgg gagcggaagc ttcgcgacgt caagatacgc 300

aaggaggaca tgaaccgcct cgatcatgaac ttcctcgtca ctgagggcctt cgatcgacgcc 360
 gncgacaagt tccgcatcga gtccggcacc cagccggaga ttgacctagc gatcatcgcg 420
 gatcgaatgg agggtaagag ag 442

<210> 14180
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H8

<400> 14180

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 gggccccagg acgatgaact gcagtagcta caccttcac atgccgctgc actaccgcgc 180
 gtacaagaag gctgactacg agagcatgcc ggagtggcgc gtcgactgcc tgcctccgca 240
 gtacggggct cccgctcagc gcgaactcga cagcaagcga aagtccgcca tgggcgcctt 300
 cctctggccc gaccagtact gaaggaaccc gtggcccgag ctgaagctgc tgagcctgag 360
 ctaacaagag atg 373

<210> 14181
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-A1

<400> 14181

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 ataccacaag tcttcttcac aagtttagga gtgacagcaa caagagatct cgatggcctc 180
 tgccaccgtg ctcaagtctt ctttcttcc caagaagtcc gaatggggcg ccaccaggca 240
 ggccgccgcg cccaggccgn ccaccgtctc catggctcgc cgcgcctccg cctacgccga 300
 tgagctcgtg aagaccgca aaacgatcgc gtcgccgggg cggggcatcc tggcgatgga 360
 cgagtcgaac gcgacgtgcg ggaagcggct ggcg 394

<210> 14182
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-A3

 <400> 14182

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gcgaggaacc ccctgatgag caggaacctg gagaggaatg gcaggatcac ctgcatgacg 180
tttccccggg actggctgcg gagggacctg agcgtcatcg gcttcgggct catcggtcgg 240
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agcatcggcc aggagctggc ccacttcccc acgccccgc ccgtcacctc ccagttctgg 360
ctgtggctag tgacgtggca cctgngcctg ttcacgtgac tcaccttcgg ccagatcgga 420
ttc 423
  
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<210> 14183
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-A4

 <400> 14183

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gaagtctgac agcgacggtg ttttctacgc cgagctcaat gagatgctga cgcgggagct 180
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tacctccgac gtccagaaga ggttcaactt ccctgagaat ggcgctcagc tttacgccga 360
gaaagtcgac aaccgtgggc tctgtgcat cgcgcaggcc gagtc 405
  
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<210> 14184

<211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-A5

 <400> 14184

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 accatataac cctacaaccc cccttcacca tctacctcca tacctacatc accatcacat 180
 acaatactta tcctcctcac tctcttctta tcctcatata cctcatcctc tctactctca 240
 ccatctc 247

<210> 14185
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-A7

 <400> 14185

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 cgtccccgcc tccccctcc tataacctcg cctccgcaac cgccgcagac gattcttcgc 180
 ggctcctcc tcctcctcgc ctcagatggc ggcgcctgcc gacgcgcgcg gtggctcctc 240
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 agaaatacgg accattatgg accgaagtgt caaaagtgtt cttgctaccc attctcagga 360
 ttatgctggn tatccatctg ggtcatgggt tgattttgca t 401

<210> 14186
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-A8

 <400> 14186

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 caaggacgtg ctgtccaaca agttcggcca cttcgagaag ctcaagggtcc cggcgctgtc 240
 caagatgctg ggctccggcg tggccagcca cgagggcgag aagtgggtca agcacgggag 300
 gatcctcaac catgcgttcc atcttgagaa gctcaagcgc atgctgccgg cgttttctac 360
 gtgctgcgag gaactggtga gcaggtgggc ggcgaggtcc cttgggtccg acggctcgtg 420
 c 421

<210> 14187
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-A9

<400> 14187

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 gtcgccatgc aggcacctcc agttcctgtc ggcgggcgagc ccgcgggcggc ggtggcgggc 180
 cggcgcccg cgggtgcggg cgcaggtgtc caccaccgag accgcggcggt ctgggcccgc 240
 gaagacgttc aagaagcatg acgaagggtc tgtca 275

<210> 14188
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-B1

<400> 14188

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 ggactgggct tgtgttagaa aagaagcatt ctcgtcagac aagaatgagt actctcatct 180
 gcttgtttca gacttcactg acacaacgcc gtcgctccca ccagaagaac tgcgaccatt 240
 tatggtcggt ccaggaatgt tgcattgagat gccacctgtt gaacaagaag ctggacccga 300

gagactccgt gtcctcgtg aagtcgctgg gcgtaatcct gcagtagtct tccttgaatc 360
 actgctccca tgggtcgact atgggtgacaa tcatcaaggt gcaaatagacg acgacaacga 420
 cgacgaatga tc 432

<210> 14189
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-B10
 <400> 14189

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 gggtaggctc ctcagggcct ttgggactgc ttttgtcttc gctgactcc accttttatt 240
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<210> 14190
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-B2
 <400> 14190

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 aaatcactat aacatataac cctccactc tacttttttt acaaaataat cattctcctc 180
 atacaacaat caatactctc atcttctttt ttcatacttc acttacacaa ctccatctct 240
 tccaccataa taacttcac catttattct caatccatca atatttcatt aaattccacc 300
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 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-B3

 <400> 14191

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 catccgcatt gggtccctgc gcgccccaac ccaccaccg gctnctccg gtcacccccg 180
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 <211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 14192

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<210> 14193
 <211> 121

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-B5

<400> 14193

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 c 121

<210> 14194
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H7

<400> 14194

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<210> 14195
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-G1

<400> 14195

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 tcccatcata acaaatatga atatgatatt cttcatcttg ataactcatt gtttgattcc 180

ctttatgctc cactggagtt ttacacttag gtatggtctg caatatctcc tgacctatat 240
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<210> 14196
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-G10

<400> 14196

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<210> 14197
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-G11

<400> 14197

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ccccagctcc agcaggcaga tcagatccat ccaaccacga acaggaagga aggtaggagg 180
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<210> 14198
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G3

 <400> 14198

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 aatggcagca acggcgagca catctccacc cgcccgccgc cgaccccgtc gccctccgc 180
 ttctccaagt tcttccaggc taacctgcgg atcctgggtca ctggtggggc gggcttcac 240
 ggctcgcacc tcgtggacag gctcatggag aacgagaagc acgaggtcat tgatgctgat 300
 aactttttca ccggttcaaa agataacctg aagaagtggga tcggacaccc aagatttgag 360
 ctcatccgcc atgatgtcac tgagccactt cttgtggagg ttgaccagat ctatcacctt 420
 gcttgcctt 429

<210> 14199
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G6

 <400> 14199

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<210> 14200
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 14200

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 gccctttcag attatgtagc atatctcctg agatagtact tcttcaacaa cttgcactat 180

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gccagatcta aagcatcagt tgaacggta taatggcgaa taaacaaaga tctcggccaa 300
gcatctctaa aaggttcagc ttggttgtaa tcaataaact ggaggaatgt agataccaat 360
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<210> 14201

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H11

<400> 14201

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ctgagatagt acttcttcaa caacttgac tatcgattga gtacatgcc tttctatagt 180
cagattgcaa agaaatggct tgactctcag tttgccagat ctaaagcatc agttgaacgg 240
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<210> 14202

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H12

<400> 14202

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acaacactgg tggagccgac gagtggtaac atgggggta 399

<210> 14203
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-H2

 <400> 14203

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 aactatatca ctctacagt cctcgatcct actgcacgcc atacatctca accccaatt 180
 acgccttctt ctaccacca caccattacc caataaacat ccat 224

<210> 14204
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-H4

 <400> 14204

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 cctcgccatc tgggcctgcg aggtcgtgct catgggtggc cgtcgagggc taccgcattg 120
 ccggcggggc gctcggcgag gtcgtcgacc cgctgtacce tggcggcagg cttgaacccc 180
 ctcggcctgc cgacgacccc gaagccttcg ccgagctcaa agtgaaagag ctcaag 236

<210> 14205
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-H5

 <400> 14205

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 tgggagcgac ggttcagtga tgcggatatg agacggatgc atcttttg 108

<210> 14206
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H6

<400> 14206

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cgcgcgtgct cgatcgatct gaaggccaga cctgtgcttg tccaattttg ccttggttcta 180
cccaccacac cagtagtcga gaaggttcca tataagcgca agcagacagc agcaaaagag 240
ctaaggagag tctgagacaa ggttcgaaca gatggaggat gtggtgaagt tcgtctttgg 300
agtttccgga aatgtcatcg ctctcttcct ctctctttcc ccagtgccta cgttctggag 360
gatcatcagg aggaagtcga cggaggattt ctctgggggtg ccgtacagca tgacactcct 420
caactgcctc ttgtcagctt ggtacgggct gccgtcgtgt 460

<210> 14207

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-043-Q1-K1-E12

<400> 14207

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gcgagagggtt gcgagaagta gccgccgccc gaggagcacg ccaaggccgc cgcctacgag 120
gacggccatg gggttctggg tgaccacgct catctttctc ctctccggcg tcgccgcctc 180
cctcttcacg ctctctgct gcaaccgcgg gccctccaca aacctattcc atttgacctt 240
ggtgactaca gctgtaattt gttgttgat gatgtatgct atcgtttacc ttgctcagat 300
gaagccattg atcaaccca tcctgagcgg ngagtgatct ctctctgca ttaaaaagaa 360
tgaaagctag gtctgctgta ccattattca gtctgtgaac ttc 403

<210> 14208

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-E6

<400> 14208
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 ttgggggatga acatcgcgcg cattgctttg tggcct 96

<210> 14209
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-E9

<400> 14209
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 acggcgctact cgaagccgcg cgggctgcgg accgacgagg tccccgggat cgtcgacgac 180
 ttcaggcggg ccgcacggaa cgcgatccag gctggtttcg acgccgtcga aatccacggc 240
 gcgcacgggt accttctgga gcagttcatg aaggacagct gcaacgaccg cacggaccag 300
 tacggcagca gcttgagaa cgggtgccgt ctccgctgg 340

<210> 14210
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-F1

<400> 14210
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 tgatggagcc catctgcttc tacgtcacgt ccatgtactt catggccggc tacgccttct 180
 tcctccgcac caagaaggag ccgtcgttcg aaggcttctt cgagagccgg ttcgcgcca 240
 agcagaagcg cgtgatgcgc gcccggggct tcgacctcg caggtacgag gagctccgga 300
 gagcctgcgg cgtggcggcg tcgccgccgc tccaggcccc gacccctgc gcgagcgcg 360
 gcgcggcgcg ggagagcggc cattgccact cctactgcca ttgccattga tcttggcctc 420
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<210> 14211
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-F10

 <400> 14211

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gttcgtaa at ctggcctctg gcagaaaact caggagatta tccgtggtct tggtcctaat  180
ccatctagcg atcttcgtga ttctagcgag acgcctgctg gggttgactaa cctgggagca  240
acttggtatg cgaatagtat tctacagtgc ctttacatga acacatnctt ccgatctggg  300
atcttctcat tggatctgga tgttttgaag aagcatccag ttttagatca gctgggttcgg  360
ttggttgac aactacagtc tagcaaatg gctttcattg att                               403
  
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<210> 14212
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-F4

 <400> 14212

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ttctcggggt aggggttcctt aggccttttg gggggtgcta tggcgggggg tgatgtggag  120
taccgttgct tcgtcggcgg gcttgccctg gccaccagca acgagtcgct ggagaatgcc  180
ttcgc                                              185
  
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<210> 14213
 <211> 145
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-F7

 <400> 14213

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actctctcac catcttcctt cctactgcct tcaattctta actaaacatt aatattatat   60
  
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ccgataactc taaacataac cactgcctca caaaaactta atctgataat ttcaatgatc 120
atcacattca ctctcctacc tctat 145

<210> 14214
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-F8

<400> 14214

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gtcgggtctgt tcaatctgtc ggctcggcat ggacgctccg agcaactgca cgcgtcctgc 120
gcgcgccaag tgaccgaaca agctgagctc tgctgctaca gttgcttgcc cctgtgccaa 180
actggcagga ggtaggtagc ttatagcata gcagctagag ctaagctgtg gtgcgtagcg 240
gcagctagag ctagcttgtg cacgcgcagg tgcgtgctag ctagctagc 289

<210> 14215
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-C1

<400> 14215

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ctcaatcacc ctccaaggc ctacattccc actatgatta aaaaagtctt aatagctctt 180
gaaaagctta cgaagaaacc ttacacgcag cctgaaaaaa tcaattagat acacaacctt 240
atacttcacg catacaaaga catctacaag acggttaacg ttggctccat tcatatgaac 300
actgccaaacc atcccaaata tccacttgca atgcataaaa acgccattga gatacttcct 360
ggtttgtatg ctccaaactc ttaacottgc tcttccacct aggattcttc aaaaatcgct 420
atcata 426

<210> 14216
<211> 186

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-C10

 <400> 14216

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 gtatgacata tgacataaca aatctgtact acagtgtcct cctccctgcc tttagaacat 120
 atcaaaacaa acacatgcac tcaccgatta tacgacacaa gctatgccta atacatcaac 180
 gatcac 186

<210> 14217
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-C2

 <400> 14217

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 caatcaccaa gatctcatta aaatatcatc ttttcaacga gaaaatcttt taacaagtat 180
 ggatacatgt tcagaacact attacacat actatctcgc actctgacaa aatgcatcca 240
 cctgaactat ctccacaatc gcctactcac cttattacag aacatctttc cacctcataa 300
 caccctactg cgactacatc attaaacctc atccatacag tacatacatt atcaacacct 360
 taatatcaga ttt 373

<210> 14218
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-C5

 <400> 14218

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 ggtgaccgcc cgagcccggg tcgcagccct gcgcccgtca tcctcgtcgg gcttccttgg 120
 ccactctaac caactcggcc gaactgctac cgagtcgccg acgaggcata gtctcaaggc 180

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221

<210> 14219

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-043-Q1-K1-C8

<400> 14219

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cccaagcccg ctgcgggtatc gtctctttct ccagacatca tcgacgagct cgccaagtgg 180

tatggtcctg acaggaggat ctacctgcca gatgggctgt tggaccggtc ggaggttccg 240

gagtacctca ccggaaaggt ccctggagac tatggctacg acccttttgg cctgggcaag 300

aagccagagg acttcgccaa gtaccaggcc tacgagctga tccatgccaa atgggcatg 360

ctcggtgccg ctggcgctgt cattccagaa gcctgcaaca ag 402

<210> 14220

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-D5

<400> 14220

ccttcctgaa ttccccgggc gggccacgaa tccaccggca ccaaccgatc cactgccctg 60

catcatttca tcggcaagat ccaacaccac aagagccgtt tttcaaacgc tggtgctcac 120

gtcactgtt accaactcca aatgctacgc tctctccacg ctgctccgga gactcaggaa 180

cccaagcgac aatcttcaca gctgataccc cacgctcata caccactgca cctctttcca 240

cgtgacctgc caccccaaca accgcgtcac cctcctaaca tctttataat tagaactcat 300

ctgggtcatct ggtccctgaa ctttgcaaac tcgagcatct tcagtatctg gaactttata 360

agaataacat tcaacgaaca atcccttctg agctttctcaa tatcaagaat ctaataagct 420

acgacttgta caagaacaac atttcactga caata 455

<210> 14221
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-D6

 <400> 14221

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 ctatcacgct ggtgatcgct ctctcgcca ccaactcgga gaacctccca catcagactc 120
 ttgcctgac cctcacgtac caccaaatta gatttcacat acttaacacc tagctcatcc 180
 acccttccta ctggcagctc gtctcctacc tccatcacta cagcttcata ctactagatc 240
 ctcatcataa gcactaacca gtttcactag cccatccgct tgtaaaacca actcattttc 300
 aacatgtcga actatataac cctaacactc aagaaacatt ctctcgtcac ct 352

<210> 14222
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-A4

 <400> 14222

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 agctctgctg gcgttgggat tattttgcct accaaaacttt tccgggtgga ggtgaactat 120
 tgtcgcatcc taaagcaagc tgagcatgac agcgcaaga ctggaatcca gttcagcttt 180
 tcctcgccca tgtaggaact tgccatggca gccgaagtag ctgcactttc ctctgtagac 240
 ttgcattctt cccgttcttt tcatgctgaa gcaattgaag aggtttacgt gtcctctttt 300
 cttgtgacgc ttgttcattg aca 323

<210> 14223
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-A8

 <400> 14223

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ggacgtcgcc agcaggtgcg tcgacgccgc gaagctcgcc ggcttcgcgc tcgccacctc 180
ggcgctcctc gtctcgggcg cgagcgcgga aggcacgccc aagaggctga cctacgacga 240
gatccagagc aaaacgtaca tggaggtgaa gggcacgggc acggcgaacc agtggccgac 300
catcgacggc ggcgtggagt cgttcccgtt caaggccggc aagtaccaga tgaaga 356

<210> 14224

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B12

<400> 14224

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ggcaccagtc cggacgcagc tcctctcctc cgtcgcgaag ctccgcgtca cggccgcgct 120
cgtctgcggc tctggcggtc ccgctgccgt cgtcgtcgtc gttccggccg ccgctcaggc 180
cgtcccgttc gtccgtcctt ctctccctcc gcaaggaagg cccttagcct cctccactcc 240
ttacgcacag tcccagaagc tgcagcttgg cctcgacaag ctcggaaga tcaggccatg 300
cccgtccacc aaccgggggt gcgtgt 326

<210> 14225

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B5

<400> 14225

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accgttgctt cgtcggcggg cttgcctggg ccaccagcaa cgagtcgctg gagaatgcct 180
tcgcctccta cggcgagatc ctcgactcca aggtcatcac cgaccgggag acggggaggt 240
ctcgcggctt cggcttcgtt accttctcct ccgagaactc catgctcgac gctatcgaga 300

acatgaacgg caaggagctc gaccgcccgt acattaccgg taaccaagcc caatcccctt 360
gccgttgccg ttgccgccc 379

<210> 14226
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B8

<400> 14226

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attctatcta ctaataaagc ct 82

<210> 14227
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G2

<400> 14227

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agccggccaa gatcggcggc cgggcgccct ttgcctcgct gccgtcccgc ccgtagtcgc 180
aactcgcttg cagggcggtc ggcgtcgacg ccggcgccgc caggatcacg tgctccctgc 240
aggacgtcgc cagcaggtgc gtcgacgccg cgaagctcgc cggcttcgcg ctcgcc 296

<210> 14228
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G3

<400> 14228

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cgacaggact aggatgagct agcctgtgat gaggtgtgtg actccatgga cgcggcccat 120
caggacgcgc gggactggga ctgggaggtc cagctgccag accacaggag ctgattctta 180

atgcgccaac accacggcag catcgataat acccttgacg atcaagaaga accagacgag 240
ctcgacctgc tgcctgact 258

<210> 14229
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G5

<400> 14229

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cagcaatddd tccagcatta gcattgaatg agaaggatat agaagaatgg gaggaggata 180
ctgatgagta tatgcaaaga atcttccttc tgaacttgat gacatttctg gatggactga 240
ggatttgttc actgccagaa aaagt 265

<210> 14230
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G6

<400> 14230

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tctttttttt cctttttatt tgtttgcaaa aagatttcgt tcgatgctac ttctattgat 180
tctttatcga tcgatatgta tggatccatg tgtgtacata cctagatacc gatcatggat 240
t 241

<210> 14231
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G7

<400> 14231

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 cgagcgagat ctcgctgcag tccctcgaga tctggtcaca gatctatccg acaagatggt 180
 gaagatctgc tgcacgggtg ctggctatgt cgggtggcca accatggcgg tcattgccct 240
 caagtgccca gacattgagg ttgtcgt 267

<210> 14232
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G8

<400> 14232

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 cgtcgcaact cgcctgcagg gcgttcggcg tcgacgccgg cgccgccagg atcacgtgct 180
 ccctgcagga cgtcgccagc aggtgcgtcg acgccgcgaa gtcgcccggc ttgcgcgtcg 240
 ccacctcggc gtcctcgtc tcgggcg 267

<210> 14233
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H1

<400> 14233

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 gagcattgtg tgccaggcgg cgagcagcat gtccgtcgac cgcgtccccg acatggagaa 180
 gcggaagctg atgaacctcc tcctctcgg cgccatctcg ttgccaccg tcggcatggt 240
 cgtcccctac ggcgcttct tcgtc 265

<210> 14234
 <211> 408

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-H10

 <400> 14234

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 tagtttttgt tgtctactca atgacctatt atgccgtgga agctgtgagc cttgtctcga 180
 aatttgacat cccatcaatg actgagagtg aattgatact ggatgtcatt ggcctccgtt 240
 taggggcggt tgggttggtc tgcattgctt tctcttctt gccagtcgcc cgaggctcgg 300
 ttctcttacg gcttatcgat attccatttg agcatgctac aagataccac gtctgggttg 360
 ggcattctcac gatggctctc tntacattgc atggcttggt ctatgtga 408

<210> 14235
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-H11

 <400> 14235

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 gcaccaatct cccctaccat atcgatcgac cctgcaaggt ttaatccaac agaattccac 120
 cggaaatttg gtgaagtgct aatcgcttgc ggcttgcttg cccgggtctcg tggctttgtg 180
 ctgctcccg cgtggtgagg aaccctagga tggcgggggt ttcgatggcg gcggcgccctg 240
 aaggggtgct gcaccgccgg attgagtttc atcttgacag gagaccgcat ggctc 295

<210> 14236
 <211> 128
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-H12

 <400> 14236

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gctttacata tatgtgggta gagaatatag atatatgggc tatgtgttca aaaaaaaaaa 120
 taaaattt 128

<210> 14237
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H3

<400> 14237

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 cttgggtggtc atgtcaaaag gaactcctta cactcagcag tcttaciaag ttagtgaatc 120
 attcccctac aagtggatca acaagaaatg gaaagaaggt tttcatgtta catcaatgac 180
 aactgcagga agccgctggg gtgtagttat gtcaaggaac tctggatact ctgaacaggt 240
 agtggagttg gatcttcttt atcc 264

<210> 14238
 <211> 147
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H4

<400> 14238

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 ttcaaagaaa gtagagttga tctgcttaga tggtatgcca tctactgatt ataacatgga 120
 acatccta atcgaatgaaaa aaataat 147

<210> 14239
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H5

<400> 14239

ggagcagtgg gaaaataact actacatcag ttccatagct ggtgcaatga atgggagttg 60
 ctgggtggtc atgtcaaaag gaactcctta cactcagcag tcttaciaag ttagtgaatc 120

attccccctac aagtggatca acaagaaatg gaaagaaggt ttatcatgtta catcaatgac 180
aactgcagga agccgctggg gtgtagttat gtcaaggaac tctggatact ctgaacaggt 240
agtggagttg gatcttcttt atcc 264

<210> 14240
<211> 278
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-042-Q1-K1-H6
<400> 14240

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gccgggggtac gctccggcgg tcccgtagcg gatgtcgcag gtgaacatcg agggcaacgg 120
gtgcggggcgg gcgctgccgc cgcagccgac cgtgaaggtg tactgccgcy ccaaccccaa 180
ctacgccatg agcgtccgcy acgggaaggt ggtgctggcg ccggcgaacc ccaaggacga 240
gtaccagcac tggatcaagg acatgcggtg gagcacga 278

<210> 14241
<211> 260
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-042-Q1-K1-H7
<400> 14241

ctgacgcgtg ggggcttgcy gtggatacct atgcaccag agacgaggaa gggcgtagca 60
agcgacggaa tgctacgggg agttgaaaat aagcatatat ccggagattc ccaaataagg 120
caaccttttg aactgcctgc tgaatccatg aacaggcaag agacaacctg tcgaactgaa 180
acatattagt agccagagga aaagaaaagg catatcgaga gactgagcgt gatgagaacg 240
agaagaagaa agagatagag 260

<210> 14242
<211> 265
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-042-Q1-K1-H8

<400> 14242

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tccgagggcg cggcattccga tgtcatggag cctcatgcg tcatccacag tggctcggca 120
gagcgggtggc gcgcggaggc gtcgcgggcg ttccagcact acctggaccg cgcggcgccg 180
cacacggcaa aacggggcggc cgtcacgctc gtggacgctg cgggtgtacgc gcttgcggtc 240
tactacgtgc gcagcttgta cgtca 265

<210> 14243

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-H9

<400> 14243

cccgcacgac acgacaccaa gtcgaggtag ctcgagggca ccaatcatgg ccggcgtgaa 60
ctccagcgtc gtcggggtca agcccgcgc gccagtgccg caggccgcgc ccgcctcatc 120
gccggcgaag cgggtgcagc tggccgcgcc cgagggccgc cgcgcgcgctc tgctcggcct 180
ggcggccgtc ttgcgcgtca cggccaccac cgggtcggcc aaggccacga tcttcgatga 240
gtacctcgag aagagcaagg ccaacaagga gctgaacgac aagaagaggc tggccaccag 300
tggcgccaac tttgcgcgcg cctacaccgt ggagttcggc agctgccagt tcccctacaa 360
cttcaactggg tgccaggacc tcggcaagca gaagaaagtc cccttc 406

<210> 14244

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G12

<400> 14244

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caatacatgc tgcatctttg gttcagatgg caaacttaag ggtaaacata gaaagatcca 120
tctttttgac attgacattc caggaaagat cactttcaag gaatcgaaga ctcttactgc 180
tgggcagaat cctactgttg tagacacaga tggtgggcca attggtattg gtatatgtta 240

tgacatccgt ttccaggaat tagcaatgtt gtatgctgca agaggtgctc atttggtatg 300
ctatcctggt gcattcaata tgactactgg accactgcat tgggagttgc tgcaaagggc 360
aagggtctaca gacaaccagc tgtttgttgc aacatg 396

<210> 14245
<211> 229
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-A1
<400> 14245

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tccggtanna attatgacgt tgtacctgca agaataatctt cattnggagc atggtgggat 120
cttactgcaa agttccctat aatgctcttt tcatacctaag gaacacataa caatcctaag 180
ggtggaagta cttaactcga gacttnggtt atgaacaggt gatgctcca 229

<210> 14246
<211> 259
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-042-Q1-K1-E2
<400> 14246

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tatggcgtgt gattggagat cctcagctga gtataatcga ttcggatcgc cgtacctccg 120
cggttatgga gacttggcca ctgacttaca cgtagcattc cactaaagat gatgggtttt 180
tgctaagaaa ttggctagtg caggaccagt gattgaacta gggtagaaaag aactctagtt 240
gcaggtaatt gtacgtaac 259

<210> 14247
<211> 259
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-042-Q1-K1-E3

<400> 14247

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cgggtcgggtg aggcgggagga gtaggatggc gagcgcagcc ggaggcggag cgtcagtgga 120

aggggagtgg cttaaggtat cccacttcac gcccatgggtg gaagcgcagg accccaactc 180

caaggcagtg tacaacctga cgctgcgtcg gatactgcgc gcgcgcgacc acgacgtgga 240

caaggcctgc gacatgttc 259

<210> 14248

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E6

<400> 14248

cgccagcttc accgttgaaa tttctttccc caaggtctta aaatgtgact atgcgatggg 60

tttttaaatt gtggtggatg ctcagcgcct gcagcaacaa ctacaaacac aaccagagtc 120

tcttctttt gatgaaatcc tctattgcaa tattgggaat cccaatctc ttggtcagca 180

acctgttaca ttcttcaagg aagttcttgc tctttgtgat tatcctgccc tcttggaaaa 240

agaagaaacc aaatcattt 259

<210> 14249

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-042-Q1-K1-E9

<400> 14249

ggcatcttcg tctgccagat ctggcatgtg ggcaggggtct ccaccaacga gctccagccg 60

gacggcgacg cgcgtatctc gagcacggac aagcagatct ccccgacgc caagtccgga 120

acggcgtact cgaagccgcg ccggctgcgg accgacgagg tccccgggat cgtcgacgac 180

ttcaggcggg ccgcacggaa cgcgatccag gctggtttcg acgccgtcga gatccacggc 240

gcgcacgggt acctcctgga gcagttcatg aaggacagct gcaacgaccg cacggaccag 300

tacggcggca gcctggagaa ccggtgccgt ctcgccgtgg aggtcgtgga cgccgtcgtc 360

cgcgagggtgg gcgcgcgcgcg cgtcggcctc aggctgtcng ccttcgtc

408

<210> 14250

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F1

<400> 14250

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cctgggtccc cccatccgcc gccgcgggt cctcctctag ctccctcctt accccgagct 120

ttaagctcgt gctacctgcc tacctatccg tagggagaga gagagagagg ggagaagggt 180

cggtcggctg gtcggggggt ctccgatctc gccgctgcct ccccgtttct tcgttgggat 240

ctcgtctcgt tcgcgccatg g 261

<210> 14251

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F10

<400> 14251

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gaacagtctc catcagggtca gccggtggaa ccattctcaa actttgggcc ctttttgaca 120

ggttgggtctc cttcagagac gagacaatag caccaagtgc aggtttgatc ggatcaaaca 180

tgagcaaacg gaggcagtca acggatgatc tcacatactg caggtcaaga agcgggaaggc 240

gcgggtgcct ctgcacgtcg ccgacgccgt gatggagcca gtacggcggt ccggccgggt 300

cgccaacctc ccggataagc ccgtgtaccg cgagaagggt cccgattttg ggatgaagat 360

taggaggacg tacggatcgg tgagaagaga tctgaccaac cgggtgt 407

<210> 14252

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F11

<400> 14252

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attctccatg gtggccggcc cttgaaccat tttcaaactt tgggcccttt ttcacacgtt 120
ggctttcttc atagacgaga caatatcacc aactccatat ttgatcggat caaacatgat 180
cacacggatg ctgtcaacgt atcatctcac atacttcacg tcaagaagct taaggcgaga 240
ttgcctctcg act 253

<210> 14253

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F2

<400> 14253

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atggaggcgt atccgtatctt ggcggagtag gggaacggac tcgtgaagga aatgatcttt 120
atatggaaat gaaggaatcc ggagtaatta atgaaaaaaaa tattgaggaa tcaaaggtag 180
ctctagtcta tggccaaatg aatgaaccgc cgggagctcg tatgagagtt ggtttaactg 240
ccctaactat ggcagaatat ttc 263

<210> 14254

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F3

<400> 14254

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gcaaggccag taacgtgccg tcgtcgtgag agttcggcga ggcccgcgtg acgatgcgca 120
agacggcggc caaggccaag ccagcggcgg cgtccgggag cccgtggtac ggacccgacc 180
gcgtgctgta cctggggcca ctgtccggcg agccaccgag ctacctgacg ggcgagttcc 240
cgggcgacta cggtcgggac accg 264

<210> 14255
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F4

<400> 14255

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 cgggctggcc tccttctca ggtccaccgt ctctctcttc tcctccgect tcccgccag 120
 cggcaggagg tcctcttca accaccgcaa cgccttctcg ggccccatcg tcgtctccat 180
 cgtcccgccg gaggtcgcg gggcggcgg caggaggaag cgcccggggt acgtgactcc 240
 cgagccgtcg tcgccaagg tg 262

<210> 14256
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F5

<400> 14256

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 caaggccggg aacgtgccgt cgtcgtccgc cttcggcgag gcccgctga cgatgcgcaa 120
 gacggcgggc aaggccaagc cagcggcggc gtccgggagc ccgtggtacg gccccgaccg 180
 cgtgctgtac ctgggcccac tgtccggcga gccaccgagc tacctgacgg gcgagttccc 240
 gggcgactac ggctgggaca ccgcgggg 268

<210> 14257
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F6

<400> 14257

ctatgtgacg atcaatgtgg tgaccatgat ccaaatcgaa ctgaacatgc tactagaggt 60
 aaagggtggc aacttccttt ttctgtcctt cacagggtaa taatcaatga aaacaagaag 120
 accccggaac aagtttgtgg gacgtcaagc agttctgaca cccagtgct taaatggatg 180

gtatgctgtg aatactttcac acaaccacaga gagtgtgaag ctgcaatacc gctacttggc 240
aaacgatgat cgattcaatc acccttc 267

<210> 14258
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F8

<400> 14258

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ggatcgagag cacacgccga tggcgaggca ccgccgtgcg ccgctgctcc ggcgtctgct 120
cctcctgacg gccctcgagg cctcctgctc ctactacctc ctcttctctgc aggcgcaggc 180
ctccgtcccg ccgcggtagc acgggttcgc ctacggcggc ggcgccgca cggcctggaa 240
ggacgccgtc ctcgctgagg cctttctcga cccgctctgc cccgacagcc gcgacg 296

<210> 14259
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F9

<400> 14259

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gtgggcgacc gccgccaccc ccgtgccgtg cgctctctct ctctctctcg tgcgacggg 120
tgggtgggag accgtaggcc gccgccgccc cctaggccag gtgcccaggt cgaccttcaa 180
cagcgacgag catccaccag atttctacat gagtgtgac ttctattgt gaattcagac 240
gcaatcaagt atggcttcaa tggcaatcat taggagaagg aagtatttct tggatcatgt 300
taacacacct accatttcat cgtctgcttt ctttacattc caacatggaa gactcggttt 360
ggaggttgag ccaagaacag aacagcgatt tctcgagcat agttctgggg 410

<210> 14260
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E12

<400> 14260

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gcaggggaaag aagaggaaga tccgaagatc cgcacaaaat tagattagat cgtgggtttgg 120
tgacttgata agaggggtgg ggtgaagcgt ctatgtcctg cgtgttctgc aggggtgttcg 180
ggaagttcaa tgatcagagt caggcgaccg cgctggcctc gctcgacaag ctcaacgaga 240
cacttgaaat gttgtaaaag aaggataact tgctagttaa aaaggccaat cttgatgttg 300
agaaggctaa gaattttacc aaagccaaga ataaaagagc cgcagtacag tgcttgaaga 360
ggaaaagact atacgagcaa catattgagc agtttggaat tt 402

<210> 14261

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G10

<400> 14261

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aggctagcta ggtggtcctc gaacgaagat gttggcggtg ttcagcgggc aagtgggtga 120
agtgccggcg gagcttgtgg cggcgggcaa ccggacgccg tcgccaaga cgaaagcgtc 180
gcaacttgtg gggcgcttcc 200

<210> 14262

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-G11

<400> 14262

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gacgaagcat ggcgtccgtc accgcgcgcg ccccggtcgc agccctgcgc ccgtcgtcgt 120
cgtcggcctt ccttgccac tctagccgcc tcggccgcac tgctaccgcg tcgccgacga 180
ggcggagcct caaggcggag gccaagggcg agtgggtccc gggccttccc tccccgcct 240

acctcgacgg cagcctgccg ggtgacaatg gcttcgaccc gttgggcctg gcggaggacc 300
 cggagaacct gaggtgggtac gtgcaggcgg agctggtgaa cgggcgggtgg gcgatgctgg 360
 gcgtggccgg gatgctgate ccggaggtgc tgaccaaggc cgggctgate aacgcgccgc 420
 agtggtagca c 431

<210> 14263
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C2

<400> 14263

cccacgcgtc cggcaaaagc caaaaggcat caccgccgcg acgacgatgg cagcctcgct 60
 gcagagccgc ggccaccctg atgcagccgg ccaagatcgg cggccggggc ccctttgcct 120
 cgctgccgtc ccgcccgtcg tcgcaactcg cctgcagggc gtteggcgctc gacgccggcg 180
 ccgccaggat cagtgctcc ctgcaggacg tcgccagcag gtgcgtcgac gccgcgaagc 240
 tcgccggctt cgcgtcgcc acc 263

<210> 14264
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C4

<400> 14264

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 cgcgcaaatt gccctctgc ttgtcctact ctatacacgc tgccgaccac ggctgccgcc 120
 aaccaccgcg cccaccgctc caccgctgcc gagtgctagc catttgagc tgccgcgcca 180
 tggcctccgt ggccgccacc accacgctgg caccggcact cgcgccccgg cgccaggcgc 240
 ggccagggac tgggctgctg 260

<210> 14265
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C5

<400> 14265

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aacagttatt tatcaaaggt cctaacatat tccactttga catacgtcaa ctatactaca 120
ctcataacta aaaatgaatc ttaatatcct aaaaaacaca aatatatttc taac 174

<210> 14266

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C6

<400> 14266

aaacttccac tatcaattct aaccgaacgc tatttaaacac aattcttcta ctacactata 60
cactcttcct acacacaaat tacttcaata cacattccca tacactacac cactaccaat 120
cactaccacac ttcaaactca ctccccatac cactatcatc ctccaccaac aatatctcac 180
caccac 186

<210> 14267

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C7

<400> 14267

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aggggggaggg catcaagaac gccgcctcct ccaccggcaa catcacgttg agcgtcacca 120
agagcaaccc ggagaccggc gaggtcatcg gcgtcttcca gagcgtgcag ccgtccgaca 180
ccgacctcgg ggccaaggcg cccaaggatg tcaagatcca gggggctctgg tacgctcagc 240
tcgagtgatt cgagtgtcta actg 264

<210> 14268

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C8

<400> 14268

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acgaggttgt atggaaagga aggccagaaa gagaagatgc ttccggttgc accaaagcta 120
ctccgcacta ttctgatata ctatctggaa agcaatgaat acgttcttga cagctaatacc 180
acttcgagcg gcgatgggtc ttcaaacagt actaagccgc cgatgcaaaa tgctggcgat 240
atgatgaatc tgcaccatgc tacat 265

<210> 14269

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-C9

<400> 14269

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gacctcagga acctgagcca attgagtctc aaagctcggg ccagaggata ttgcaagact 120
tgatgatgca atcccatatt aatgggtgttg ggccagttgg cagcgatatg aggagagcaa 180
acacaattac tcctgggtctg aatgggtgtca actccttagt tggtaacccc atgacaaata 240
accctggaat caatgggatg ggatttgccg ccatgggtgg ccttgggtcaa caaatgagaa 300
cggcgatggg gaacaacgca ttggcaatga atggaaggac cgtgatgaat cacagtgcgc 360
atgacctgac acagttggcc caccagcagc aacagcg 397

<210> 14270

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D12

<400> 14270

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taattcacgg ccgccggaga tgggacaagg ttcgcccggc gggatgggca agcagcccg 120
cctcccgggc gaccgcaagc agggagacgg caagaaagag aagaaatatg aaccacccgc 180

tgcccccttcc cgtgtcggcc ggaagcagaa gcggcagaag ggctccgagg cggcgggcgcg 240
gctccccgcc gtggcgccgc tctcaaagtg ccgccttcgc ctactcaagc tcgaacgcgt 300
caaggactac cttctcatgg aaaaagagtt cgttgccagc caagagcgcc tgcgccccag 360
cg 362

<210> 14271
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D2

<400> 14271

accaaacta ctccacacta tttctataca ctatctacaa agcaataaat acattcttta 60
catctaattcc actttgatct actatccttc ttcaaact actaaactca caatccaaaa 120
ttctttccat atgatgaatc tacaccattc tacat 155

<210> 14272
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D6

<400> 14272

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acaggagcaa cctccttttg acaagaaatc atttgtgtct tacatcaaaa aatacatcaa 120
gaatctcact gctgtgttgg agccagagaa agcggatgag ttcaaaaagg gtgtcgagg 180
tgcaaccaag tttctcctta gcaagctgaa ggacctacaa ttttttgttg gtgagtccat 240
gaaggatgat gcgtctgtgg tatt 264

<210> 14273
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D7

<400> 14273

cgtacgaaag cggtcatgac acagctgtga aggtggttta tattgatgac acattccgtc 60
 tacaggagcg gcctccttat gacaagaaat catttgtgtc ttacatcaaa atatacatca 120
 agaatctcac tgctgtgttc tagccagaca aagctgttga gttcaaaacc ggtgttgagg 180
 gtgcaaccaa gattatcctt agctagctga acgacctgca attttaatgc ggccagtaca 240
 tcaactatga ttca 254

<210> 14274
 <211> 289
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-D9

<400> 14274
 taccacnta ccactccagc gaggtttcaa ttcaaagtag ttctcctcac tcacaatctc 60
 ctctcaata cccattcacc ttaatgccac ctccgacgac ttcatatccg ccattctcctt 120
 cattaccac tcagtcgtca ctaacaactt ttcatcacat acaccaactg acgctaagct 180
 gaatgtgtcc atcaacttat tctgccacat tcatcacaac ttctactgtt acttacactt 240
 tctcagcaac tcctctcccc tcaacttcat cgccatcaac tacaccttc 289

<210> 14275
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E1

<400> 14275
 ccaaagcaac atgtttaagt ccctgtggat ttgtctcgag ggtcaggagc gctttcagga 60
 agaggcttta gctgtaccaa atcacccaag ctcaagtggc gatgattctc agcaagatga 120
 aagtaaattc tcaagttcca attcttgcac ctactcgata aatgcaaagc tgaagaagtt 180
 ttccgatagg ctctgttaca tcataacgac aggagacctt gatacattct gacctgcagc 240
 tacccttgaa tatgtccag t 261

<210> 14276

<211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-C11

 <400> 14276

 caaggagtca tctgggtgct ggcgcttcat ttagctctca ggccgtcgca cgttcagcgt 60
 cacctgcacc cacgtgacca gtgacacgcc acatcagcat cgcgagcgat cgtacatgtc 120
 tactctcgca cgtcgaccac cacacgacac ctgatataca gagctcggac gcatagacat 180
 gcatgtcgat ctacaggtca cagaaggatg ctgctgatat gtataaaccg aacttcaagt 240
 acgcatgggt gctatacacg ctcaatgctg aactagagag aagtactacc attgatactg 300
 ctatgaggaa gtttgaaacc accagattct actgcacgga cattgatgtc antggacaca 360
 gtgac 365

<210> 14277
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-E11

 <400> 14277

 cgcacggcgg agttcacaat cccaccggc cggcgtagcg gatattgcga gttacgacgg 60
 ggaaggagag gaagatccgt cgatccgcgc agattcgttt cgatcgtggt ttggtgactt 120
 ggtaagaggg gaggggagaa gcggcgatgt cgggcgtggt cggcaggggtg ttcgggaagt 180
 ccaaggagca gagccaggcg accgcgctgg cctcgctcga caagctcaac gagacacttg 240
 aaatgttggg aaagaaggaa aacttgctag tgaaaaaggc caatcttgag gtcgagaagg 300
 ctaagaattt taccaaagcc aagaataaaa gagccgcaat acagtgcttg aagaggaaaa 360
 gactatacga gcaacagatt gagcagcttg gaaatttcca gcttaggata catg 414

<210> 14278
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-041-Q1-K1-H9

<400> 14278

cgtcgagacc caaccatacc agcggcgccg catgctgacg aggaggcgga gtagagtggc 60
cggactacct cgacacctcc actgcaacca tgggtatctc acgtgattcg atgcacaagc 120
gccggggccac cggtggaag cagaagacgt ggcgcaagaa gcgaaagtat gagcttggcc 180
gccagcctgc taacacccaaa ctgtctagca ataagacagt gaggagggtc cgtgtccgtg 240
gaggcaacgt gaagtggagg gctctccgat tggatacagg taactactcg tggngaagtg 300
aggctcttac ccgcaggacc cgcatectgg atgtggtcta taatgcatca nacaatgagc 360
ttgtgaggac tcagactctt gtgaagagcg ccattgtaca agttgatgct gctccattca 420
agcagtggta cctnactcac tatggagtgg acatcggtag gaagaaa 467

<210> 14279

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A1

<400> 14279

agagatatca cagggacctc ttcaggcttc aaggcagatc cgcagcagat ggaggcgaag 60
agcgggctgc cggaggtgac catcgtcccg gcggcacggc cgttggctgg cgacggcaca 120
gtcgacgcgg caaaggcggc ggcaggcaag gagcccgtaa gcccgggcac tccgtcctcg 180
gtggccgccc gccgcagcag ctgtgaggag aggcgcgcgg tggacggcgt cgccctgcct 240
gggtggaagc tcgacgccct ctgccag 267

<210> 14280

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-042-Q1-K1-A12

<400> 14280

cccgcgtctc gccgcgtagc ggcgtatgcg ccacagaaac tcgcacgccg ctccccggcg 60
tgcggcccga gtcgccgtcg ctgccgaatc caatccatgg ctccgcccgc cgcacccacc 120

gcgctgcacc accgcaagcc cctcctcctc ccccgccgca ccgtcgcctt ggggtgccacc 180
gccaccgcgc gcgcgcgcag ggccgcttct ctgcgcgtca gggcccagcc ggacaccacc 240
gccgcagccg tctccacctc cgcgcctgag ccggcgcccg agttcaagcc tncgccgggg 300
ttcaaggcgc ccgagcccaa gaggtacgag gtcaagtccg gccaggtggg cagcgtcctc 360
ggcgctcgc tcgccatccc ccttcgcctc ggcaccggcg t 401

<210> 14281
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A2

<400> 14281
cataatgttc aaggactggt ctgggcagag ttttaagcagt attgcctctg atatttgtgg 60
gtgggttact gtgcttactg gtactgatgt actgcattct acaacagaac atgatccaac 120
ccttacttca gatttgtatg ctcatatgtc tccaatatat aggcatatgc attgtaacag 180
tttatcagta ggaaggcgtg tacaggatga ttactctct cgcactccta tatatgaggt 240
gctacatgac tacttagtgt a 261

<210> 14282
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A3

<400> 14282
aaacgtcgtg gccagccatc ccggtgtcgt cccgcgttct acagccaccg ctgtcgtcgc 60
cgtgctaggc tcttagatcc gtcagcttaa cgagctccat tccttcgagg ccagccatcc 120
cgggtgtctca gcagcggcag cagcaagcgt cgagctcttg ctttctgtgg gaggacgcat 180
ggcgatgtct gctgagcgtg ggctcttggt cctcttattc tatgccggcg tagtggctga 240
actcgccttt gtcagaaacg gtcct 265

<210> 14283
<211> 264

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A4

<400> 14283

cacgacttcc gtccgagtct gagctcatct ccacgcgccg ccgccgccgc tcgacgccgg 60
 accgggcagc catggcgga cagactgaga aggttttctt caagcagcct aaggtgttcc 120
 tcagctcaaa gaaatctggc aagggtgaaga agccaggcaa ggggtggcaat cgattttgga 180
 agagcattgg ccttggtttc aagactccca gggaagcaat tgaagggacc tacattgaca 240
 agaaatgtcc attcactgga accg 264

<210> 14284
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A6

<400> 14284

cacgcagata tccaggagct ggaaaacatt gcattaggga gaaatgatga agatggaaaa 60
 agatgaagga atttatttgg caatagtcac caccaagttc acgcaataac aaatttggaa 120
 ccacaggttc tttttgcata ccctccagag aagcctcttc cactcaagta caaggatacc 180
 ctctctttct gccttcccg aggtgtacag gttcatgctg tcgaacgtac tccttcgttc 240
 agtgagctga atgaaattct cctggga 267

<210> 14285
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A7

<400> 14285

gtcggccacg cgtccgcaaa cggccaatca atggacatga cgaccccagt gataacaaaa 60
 aagtcagctg gtacagatag atggaaaatg tcatttgtga tgccagcgaa gtatggttcc 120
 aatttgcctc gcccaaaaga tccttctgtg attatcaagg aggtgcccag caaaatagtt 180
 gccgttgacg ccttttcagg tccataatat tgtacttctg tcatacccat ttcatagctg 240

tatgtgatta agaagctata tattcagagt caagtacat

279

<210> 14286

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A8

<400> 14286

ccgacgccac agcttgtgcg cgcgcaatgg cactcgtgtc cgcctcctcg tctccacca 60

ccggcggtggc ggcgctcccc aggaatgggc agcagcgggc gtcgtcgtcg ttgttctcct 120

cctcctcttc tctcctcttc ctgcgcggca agacgtgct gaggcaggcc gaggcagccc 180

ggccgctggt cgccgtgcgc gccgcggcgg attccgacag gccgatctgg ttccccggca 240

gcacccctcc gccgtggctc gacggcc 267

<210> 14287

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B1

<400> 14287

acccacagag ccgcagcaga ctgcgaaggg aaaggagatg gatcgtctgc ccgagtcgac 60

ccggagcgtg aggaagtacg cgtcggaggc cggcgggctt cgcgcggcgc ggcaggggccc 120

ccacggggcg tcgctgacgg cgcgcacggc gcacagcatg tccacgacgg cgctgcgcac 180

caagtccaag tcggccgcgt cgctgctgcg cagggtgccc ttcgcgcgcg tccgccccgt 240

cctcgccaac ctgcaggagg tgttcc 266

<210> 14288

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B10

<400> 14288

aaaagattta tgctggacag aaacagatag gcgtattcca gcactccagc tttttggcag 60

gaggtgcaac tatagctgct gggagattta ctgcagaaaa tggagtgatc aagtccatct 120
 gggcatacag cggccactac aaacctagtg cagagaacct cctcaacttc atgaacttcc 180
 ttgaagggaa tggagtcgat ctcaaagaag tcgaggtacg ctcatcgacc agagaagact 240
 acaacgaaga tccagtgcct aatgactcgc agaagttcgc ttcagctacc atggaaccaa 300
 caaatcttcc acagctgggc cccctcttaa acaccacgca aggcaatgaa agcgacaatg 360
 ctctaagat caagcta 377

<210> 14289
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B7

<400> 14289
 aagagcaatt atatacccat accctttcta tcaaacaatga gaaatatcaa caaacagAAC 60
 gattatttag caagggctct atcatattgt agtttgacat atgtagacga tactagaata 120
 agaacaaaaa atgtatgcta ctttcctaaa aaacacaaat atgttccgaa catgagagcg 180
 caacagcata tgacatcttc agcttggcct tcagatgggc gcctgaccac taaatgaacg 240
 ggaagacatc atggtc 256

<210> 14290
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H7

<400> 14290
 cgcgcccgcc gctccccact ttgtcggcca gctactgctc cccgtgtccg gggattacga 60
 gtgccggcgc ggagcgcagc cactgccaaag cactcggatg gtcagcgcag acgctaccgg 120
 cggaggtaac atggccagca gtggtagggg acccacgttc gtgagccaag tgttcaccat 180
 gctcgaccca tccgggaacg ggctcatggc cgttaccaca cgcttcgagc taccgcgctt 240
 tctatccaac aggac 255

<210> 14291
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-C1

 <400> 14291

 taacaattat ataccatac cctttacatc aaagatgaga aatatcatca aacagaacaa 60
 ttatttatca aaggctctat catattgcag tttagacatac gtagactata ctacaatcat 120
 aacaaaaaat gaacgttact atcctaaaaa acacaaatat gttctgaaca tgatagcgca 180
 acaacatatg acatcttcag cttgacctat agatggtcac ctgtccacta aatcaaaggg 240
 aacacattat 250

<210> 14292
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-G12

 <400> 14292

 gtataatcct cccagtgggc aggacatgtc ctactacgat catgtgcaga agcgccatga 60
 ggagaagggc tgcctatatg catgcctgtt cactgcgtgc tgctgcttct gctgcttcga 120
 gacctgtgag tgctgcctcg aggccatctg ctgctgctgc tagttctgct tggagggcat 180
 gggcgtccat catcgtggag atgtggccat gcgggacacc caccgccgaa taaaatgctg 240
 tacttatatg cagcacgtt agaaatgcat tagtgtctgg ttgatgtgat cttgtgtgtg 300
 tgcgcccga tcttcatttg cactggaaaa tggcttaata attgg 345

<210> 14293
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-G2

 <400> 14293

 cagaaggtga gaagagagag agagagtgtg tgtgatcggg acaaggatca ccgctggggc 60
 tgcgcgtgct gctggaccga atcgagtcag atcctgtccg aatccgagct aaaggatggc 120

aaccggtagt gaagcctcga aggcagctga ggctgtgggt gactggcata aacacgacag 180
 caagaggatg ctccatgcgg ttaccgtgt tggggatctg gaccgcacaa tcaagtacta 240
 cacggaatgc tttgggatga aactgctgta gaaaagggat gttcctgatt agaagtacac 300
 caatgc 306

<210> 14294
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-G9

<400> 14294

cacagcaatc cacacaagca ctctgacgtc acacggggcg tgcacacaga cacaccaagc 60
 gtgggcacca atggcttact accaggaggt ggactactgc tcggaggagg tgaggtcgggt 120
 ggccccggcc ggcttcggcc gccacggcgg cggcgctccag cagcacgtcg tcaaggagaa 180
 gttcgaggag gtgcacacgg tcgcacgcgc cggcgccaac caccaccacc accatggtea 240
 ccacggcggc cagggtctcg tgggtgcgcga gaccagngtc gaggaggaca tcaacacctg 300
 caccggcgag gtccacgagc gcaggagag cttcctcgcc agggctaact gagcagcccg 360
 ggcgggccgg atccacgccc gttcgtgcct gcctgcgtgc cttatgtatg tctgtgattg 420
 tgcagggtca tcgtacttgg ctagcgtacg tacgtgcacg cac 463

<210> 14295
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H1

<400> 14295

gaatttcggg tgtaaactgg atagtggata tcctcctcca tatgttgtgt tgttccctta 60
 ttaggttgac cagttgttaa ctgggtgtgg gtactctagg atagattagc cagccgatgt 120
 ccaactgagc aaggaatatg cttggacaca ctgatatctc tgatgttaca actcaccctc 180
 caatcatatg gtatggatca ctttcttacc taaatatatc ttccaaagtc ttttatatgc 240

ggcatttgat tttttatacc aaattaagat gagtatacta ctgcttactg taagaccacc 300
 tttttgaaaa taatctaatt aactatctct aatactattg gaatatcatt gtctatagat 360
 gttactgatg t 371

<210> 14296
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H10

<400> 14296

gggacttcca ttgacatgca ggtacaattg tttatgtttt tccaagtga caaatggggg 60
 aatgtcaatc acacttttta ttcaagagta gttcatgtat ttocatggct aagatatata 120
 ggcttacatg ttttcatttc catttccatt tccatttgct ggattccttac taagtaatat 180
 ttaaaggggc attgctgtgt tttttcgtta gttaacaaaa gattgtttat atgctcattg 240
 atccatcttg accttttgca tgatatgtag cttctcatcc gggagtggcc taatgttctg 300
 tcaactgttg ggggtcttat tgtaatcaag aactgataa tcaccgcaat tgggcctaga 360
 gtcggggttaa ctcttaaaga aagtgttaagg ata 393

<210> 14297
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-H11

<400> 14297

cagattcttg ccaagatcgt ggtcggctgc gtcggagtga actcgccgat cgcgaggtgg 60
 atgggtttct cggagccccg gtacgtcggg cacatggcgt tccggggcct cgcggagtac 120
 gccgacggcc agccgttcga gcccaagggtg aactacatct acggccgagg cgtccgtgcc 180
 ggctttgtcc ccgtctccgc aaccaaagtc tactggttca tctgcttcaa cagacaagat 240
 ccagggccta agatcaccga cccacggcg ctcaagaccg aggcgctgga gtcggttcgc 300
 ggctggccaa tcgacctnct ggcggtgatg cgcacacgc tccgatggcg ccgtggtgag 360
 gacgccgctg gtggaccggt ggct 384

<210> 14298
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-H12

 <400> 14298

 gcttggttac aaaggaatta aggtagcact tccccgggaa acaacaactg gaaaatgttt 60
 catgcaacat tatatagagt ctatcctggg ttacaaagag gccagctgca aaacggttga 120
 tgatgggtgc caaaaaaaga ttccatttgt cattatgact tctgatgata caaatgcact 180
 aactatcaag cttttggagt caaactctta ctttggatg gaaccatctc aagtgaatt 240
 gctaaagcag gaaaaagtag cttgtctagc tgacaatgat gcaaggcttg cattag 296

<210> 14299
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-H3

 <400> 14299

 acccgctcg cccgcgcccg ccgctcccca cctcgccgtc ccgctcctcc tccccgtgtc 60
 ctgggcttcc gagtcccgcc gggggcgca gccgctgccg ggcacgcgga tggtcgggcg 120
 gggcgcgacc ggcgggggta acatggccag cggtggtggg gggcccgcg tctgtgggcca 180
 ggtgttcacc atgctcgacc catccgggaa cgggctcatg gccgttacca cacgcttcga 240
 gctcccgcg ttcctcacca acaggactcc tatgtggttc aaaaggatgc taccacgctc 300
 gaagaagact gaaaatagtc cagtatttaa gttttttatg gatctgaatg atgcagtatc 360
 ctatgtaaag cgactaaatg tgccaagcg 389

<210> 14300
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-F7

 <400> 14300

agtgcacgta cgcacgcact gggacactag caacccataa cagcgccact ggccagggcg 60
 cgcgtaagc ttgcttagct agccgccatg gccttctct acgtcgtctg cgtgaagccc 120
 gtggatcatca aggggtctgc ctgctgctcc atcttcggaa ggaagctcga cgtcgccagg 180
 ccgtagggcc gcttcatgct caagccacac acatccgtag tattggacaa gtactgagac 240
 aagagcgtct actttgacct cgaccacatc ggcaacacca acggacagtg cgacctctac 300
 ggctttgacg cgctctagcc ctacgatcca ctacagagca agttcttcga g 351

<210> 14301
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D3

<400> 14301
 ctggctttcg gcaacgcctt ttaccacatc tgaatctcac ccaccaccc accccggggt 60
 ggggcaccta atgggcgcgg cgatgctgct gaagcggcct gcggcgggag caggggcggc 120
 agcagcgcac accgacacgc tgtccgcgcc tgccgtgcgg aacgcgggtgc gcaccgacgt 180
 aaggagggcc gagggcacgg cgaaagctac cgtcccggcc gacaggggtcc cggcgacggc 240
 ggcatgtccg gcggagatcg c 261

<210> 14302
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D4

<400> 14302
 agaaaatcct accgtgctcg attcttccct gcgcgtctcc tccgcttga gcttccggcg 60
 cgccctgggt ccctctgtgg ccggaactcc cttcatggcc ggagctcgga cggcgctcgg 120
 tcctgcggcc tgccccaacg tcgactatct ccagctcgcc cccgacctct tctctccctg 180
 tcgcgtcgct ctctctctgc tcgctctcct ccatggccgc cgtgggctcg ccggcggtgg 240
 ccttgctctg gccgccgtgg tgccgcgtgc ccatgtgcca gcgcagtcac agctcctctc 300
 cgtctgctcg gtcttcttcc tggagcgagc tctcttctct cccatagcgt ccggcatttc 360

tcctgtgcgc tccttccatg ccgcgctcgg actgaagctt tcc

403

<210> 14303
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D5

<400> 14303

ctcgtgggttc cgcgcacggc accgaatcct tcgtattggt cggcccggcg agcatgggag 60
gaagttgtgg ccgcggatcc gtcggcttgc ttcgtggagc ggccaccccg ccgatccgtg 120
cgaaggcgcc gccgcgggtc gtctctatcc gccggtgctg cgtctgctgg gaggagggtca 180
acgggagttc gtcgattcgc cgagagatct acgctcaccc gatctgcgtc atttgagctt 240
caaggtccaa gtgcgggtat tagaagaacg ggtacttaaa tcacaattca tactacaatt 300
aagtgaattc ttcttggaga taaaaactct tacgatcttg ccaaaacagt aaaggatttt 360
agatcccaac gacctgggat gtccagacag aggtaagttg ggctttatatt taattttatg 420
atgtac 426

<210> 14304
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D6

<400> 14304

gcgcgaggcg gagcggagaa ggggcggcac ttagtgcttc ggaacacaga agctgcgagc 60
acttgtagga ggaccagcgc ctccacgaac gccccccagt cgttgcgctt gcaccgcctg 120
acacctcaga ccaactacgc gcgcaggacg gcaattcgag acacagctca gcgaccacgg 180
gagacatcga gaa 193

<210> 14305
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D9

<400> 14305

ggaagatctt taggaggtgc tgttgaggca gttcttgcca aaaacaatcc tgacaaggtg 60

gccggtctaa tactggaaaa tacatttaca tccatactgg atatggctgg tattatgctt 120

cccttcttaa gatggttcat aggcgggagc tcttctaaag gtccaaaact tttaaactgt 180

gttgttcgct ctccatggaa tacacttgat attgttggag aggtcaaaca acccattctc 240

ttcctttctg gattgcaaga tgaactagtc cccctccac acatgaagat gttatatgac 300

aaagcttctg atcataacag aaattgcaga tttgttgatt ttcctagtgg tatgcatatg 360

gatacctgga tgtctggagg ggaccgctac tggaggacaa tccaattgtt cttggatcaa 420

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<210> 14306

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E2

<400> 14306

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ggcaaggccc cccgcaagca gctcgccacc aaggcggcga ggaagtcggc gccgacgacc 180

ggcggcgtga agaagcccca caggtacagg cccggaaccg tggcgctgcg cgagatccgc 240

aagtaccaga agagcacgga gctgctgac cgcaagctgc cttccagcg cctggtgcg 300

gagatcgcg aggacttcaa gacagacctt cggttccaga gccacgccgt gctggcgct 359

<210> 14307

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E5

<400> 14307

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aaaaaaaaag gaaggaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaca 120

aaaagaacaa aagaaaatga agcaaaagag aaaaaaaaca cataaaaaaa aaataactaag 180
tactcaaata agacactcaa aaacaaaaca atagaaaacg aaggtaagag gtgaataca 239

<210> 14308
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E6

<400> 14308

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gcccctcggc cgccgcgcct cctccttcgc cgtcgtctgc tccaagaaga agatcaagac 180
cgacaagccc tacgggattg ggggtggcct gaccgtcgac gtcgacgcca acgggagaaa 240
gggcaagggc aagggcgtgt accagtctgt cgacaagtac ggcgcgaacg tcgacggata 300
cagcccaatc tacaacgagg atgactggtc taccaccggc gacgtctacg tcggaggaac 360
cactgggctt ctgatct 377

<210> 14309
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E7

<400> 14309

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cgcggcaggg cccccacggg cggtcgctga cggcgcgcac ggcgcacagc atgtccacga 180
cggcgctcgc caccaagtcc aagtcggccg cgtcgtctgt gcgcaggggtg cccttcgagc 240
cgctccgccc cgtcctcgcc aacctgcaag aggtgttcct cggcaccaag ctccgctgct 300
tattccccgc cgtgccgctc gccatcggcg ccagtgcgcc gcactttggc caggtgtggg 360
tgtttacgct cagcctactc ggcc 384

<210> 14310
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-E9

<400> 14310

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agtatggttt tctgaccctt gtttatgata tcccttctctg ttccttgcat tcacacacga 180
gtttcaaccc ctccccctg ttttggtgtt catatatgtt tcattttaat acaagtaata 240
gattagatag acacaaatcc ttcaatgttt agtagctgca ttatctttga atgtgggttt 300
tatatgttct ggatcactca gatcgtacca ctaccagtgt gtgtatgatc tggaaacccc 360
gagacatctt gtgggtttta ttcttagata ttttaccacg aaccatggaa aca 413

<210> 14311
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F11

<400> 14311

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gtcccgagc tctctgatcg ccgctcgcc tccgccctcc gccctccgcc atggcggttt 120
tccctccgc ctccccgtcg ccggcgatct ccgcctcgac ctggagcatg gcttccctcc 180
atacgtccct ccccgactc cgtccctccc cctc 214

<210> 14312
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F12

<400> 14312

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cccggcttgc tcagtctaat gcgcgcccgg atcctcgcgc ccgctggccg acagccccgg 180
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<210> 14313
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-041-Q1-K1-F2
 <400> 14313

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 ttgctcgcgc tcgcgcgcgc tgggacaggt gcatcccacc cgcacgcgct ggggcgggtg 180
 ctgcgcgggc ccatgtctc ccacgacgcg cacctcacc gcgacgaagt catcgaccgg 240
 atcctcgacg tcatcaagag ccacccaag atcgaccct ccaagggtgac cccggaggcg 300
 cacttcgaga aggatctggg gctcgacagc ctggacaccg tcgagggtgt catggccatc 360
 gaggaggagt tcaagctcga gatcccagac atgg 394

<210> 14314
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-041-Q1-K1-F3
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 tgctaacttt gtatggctcg tacgcattct catggtcatt tgctatccaa tttcttacc 180
 tattgggaag gtcttgact gtgctcttgg gcacaatgag tctgcacttt ttaggcgagc 240
 tcagttgaaa gctctagttt caatccatgg caaagaggct ggcaaggcg gagagcttac 300
 ccatgatgag actacaatca taagtggagc cttggacctg accgaaaaga ctgctgcaga 360
 agctatgaca cctattgagt caactttctc actagatggg gattct 406

<210> 14315
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F5

<400> 14315

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aggcgacgtg ggcgggggct tcaccggcgg cggagcgggc tccggggcct tcggctgtgg    180
cggcggcaac aagatgctgg accggggcat caacactgtc atcgtgctcg ggcgcagcac    240
ctacgtcttc accaagctgc tcacgtcga ccaggactac tggcatgggt ggacgatcat    300
cgagatcctg cgctatatgc                                     320
  
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<210> 14316
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-B4

<400> 14316

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aagatcttct gccgcgcaa cgagaactac tgcttgcccg tccgcgacgg cgccgtcgtg    180
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acccgggtca aggacgagga atgcatgccg gcgttcgcgc tcgtcaacaa ggccacgggg    300
ctcgccatca agcactccct cggccagtcc cacccggtca agctcgcgcc ttttaa      356
  
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<210> 14317
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-B8

<400> 14317

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 ccgaaaaggc cttgaaacat ctgaacaaaa tgagggctga acggaacgaa gatttgtgct 180
 tgagaattgg agtgaaacag ggtggatgct caggcatgtc ttacaccatg gagtttgaaa 240
 atcgagcaga tgccagccct gatgattctg ttgtagagta tgatggtttt gccatagtct 300
 gtgaccccaa aagccttctc ttcattgttg gaatggacct ggactacagc aacgcac 357

<210> 14318
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-041-Q1-K1-B9
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 cttctcggac aaattcgggtg tgaggtcgat caggacagc gagcatgaga tgatgtccgc 180
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 tgttgccacc ttctctgctg tctacgcaa ctggggcttc gccaggatca agggatcgg 360
 ctggggctgg gcaagtgtgg tctggctcta cagcatcgtc ttctacttcc ccctggacct 420
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<210> 14319
 <211> 248
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-041-Q1-K1-C1
 <400> 14319

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 tatatatagt gcgggctctt ctgtgctgca gtcacgtctt tcttatataa tactccaact 120
 actcatgtcc tcagagcctg cctattccat gatatataag cgtcgccgtt ccggtccact 180

gcacgggtctg cggatattgc tgtcgaagcg cacagcctac ttttatcaag aaggcacaaa 240
caacttac 248

<210> 14320
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C11

<400> 14320

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gctctccggt gcgcccgcga cccctgctcc cgtcgtcagg gtggcggcgc cgcgcggcgt 180
cgctcgcgg gccgctggcg ccgctgcag gccgcgggc aaggggaagg aggtgctcag 240
cggggtcgtg ttccagccct tcgaggagat caagggggag ctgcacctcg tgccccagtc 300
cccagacaag tcgctcgcgc gccacaagtt cgtcgatgac tgcgaggccg ccctcaacga 360
gcagatcaac gtggagtaca acgcctcgta tgcataccac tccctcttcg cctacttcga 420
ccgcgacaac gtggctctca aaggat 446

<210> 14321
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C2

<400> 14321

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ataacatata aatcaagctc agcctcattt ggtagcaact acagttcagg cgaacgttat 180
gggagtttca gtggtacaaa ggaagctgac tcatacgggtg atagttacag ggacaaagaa 240
tctgttaaaa cttccacaag caatagcggc agtcggaaat ttggcagcaa gctgaggaag 300
gatgcgaagc ctgataggag gaatgaggat tatagttcac ccagctcttt gagaccccca 360
tctaatacaa ataacactga ggacgacttt gatgacttcg atcctcgtgg atcaaattggg 420

aaaacaac

428

<210> 14322
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C4

<400> 14322

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gcgctggcgg agaagggcat cgcctacgag tactcggagc aggagctgct gggcgggcgcc 180
aagagcgaca tcctcctccg ctccaacccg gtgcacaaga agatccccgt gtcctccac 240
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gaggcctccc ccaggtctgt ccccgacgcc gcctacgcgc gcgcgcaggc ccgcttctgg 360
gcggcctact ccgacaaggt ctacgaggcc ggcacgcggc tgtggaagct c 411

<210> 14323
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C6

<400> 14323

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aatcaagctc aacctcattc ggtagcaact acagttcatg cgaacgttat gggagtttca 180
ctggtacaaa ggaagctgac tcatacagtg atagttacag ggacaaagaa tctgttaaaa 240
cttcacaag caatagctgc aatcggaat ttgacagcaa gctgaggaag gatgcgaagc 300
ctgctacgag gaatgaagat tatagtttac ccatctcttt gagaccccca tctaatacaa 360
attacactg 369

<210> 14324
<211> 463

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C9

<400> 14324

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 gcggcggtcca gcagcacgtc gtcaaggaga agttcgagga ggctcgacacg gtctcacgcg 180
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 agagcttcct cgccagggct aactgagccg cccggcggcc ggcatccacg cccgttcgtg 360
 cctgcctgcg tgccttatgt atgtctgtgg ttgactgggt gtgcagggtc atcgtacttg 420
 gctatcgtag gtgcacgcac tcaactcctg tacgaattac gac 463

<210> 14325
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D10

<400> 14325

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 gccatcgcca agcagaagct tccgaagatg gcctaogact actacgcgtc cggcgccgag 180
 gacgagtgga cgctgcagga gaacaggagag gccttctcca ggatcttggt ccgcccgcg 240
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 atgcccatca tggtcgcccc cactgctatg cagaagatgg ctcaccaga tggggagaac 360
 gccactgcgc gcgcggcggc tgcggcaggc accataatga cactgtcgtc ctgggcaact 420
 tcaagcg 427

<210> 14326
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D11

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acaaagggttc gcaccatcaa ggacatcaca tatctggaag cctgcataga gaaccataca 180
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caaccgatcc tcatcagagc tgggggagga atatacaatt acctttatca gctaagatca 360
tcatctgatg aagctgggtca aacaaagtct gagggaagca gtatacttgg taaatttcag 420
ataacatggc gtacgaacct gggatgaacc 449

<210> 14327

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D12

<400> 14327

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<210> 14328

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-041-Q1-K1-B3

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cagtcccgcac tcccgaacac gcgcgcgcag gccagcaca gcacggacga cgacgcagcg 180
agaggctcgg aaggaggaaa gagtcgccgg cggagacccc aatcgatcga agggcccccg 240
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ggatacgatc ggctctgcgg cctgccacgg atcggagggc ttttgctggt gactccttgg 360
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<210> 14329
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E7

<400> 14329

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 tctcctttac tatttaccct taccatttat ttcaactttt ccgtatcgac tcctattttt 180
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<210> 14330
 <211> 220
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-040-Q1-K1-E8

<400> 14330

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 aagcccaaca tggtgactcc aggctccgac tccaataatg ttaccctga tgtgattgct 180
 gagttacacc ttccgtaccc tccataggac cgttcatgct 220

<210> 14331
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E9

<400> 14331

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tctgttatga caaatgttcg caccatcaat gacatcacat atcttgaagc ctgcatatat 180
aaccatacaa aatctaattct ttacatgcat caagttgatt ttgaaccttc 230

<210> 14332

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-F12

<400> 14332

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<210> 14333

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-F2

<400> 14333

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<210> 14334

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-F5

<400> 14334

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gctcacacca cct 133

<210> 14335
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-F7

<400> 14335

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actggtgcat aatgaaatac tagatgagac cacaccactt cttccagtca aggttgatga 180
atactatgtt ttttattatt aatatttatc ttattctttt ttttatttat aattttattt 240
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<210> 14336
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-G11

<400> 14336

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tccagcatca cgtcgtcaac gagaagttcc aggaggtcga cacagttcaa cgctctcatt 180
accaaccacc accaccacca tggtcaccac tgtggccacc tc 222

<210> 14337
<211> 485
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-G2

<400> 14337

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 ttctttacaa gtgcatttta gctttcagtt cctgtttttt tttactttta tctttactta 180
 ttttctcttt gtattttttt tatttttttt cttttttttt ttttatattt atttatttat 240
 tttttctttt ttattttatt tttttttatc ttttttttta ttttttttat atctattttt 300
 ctatatttgt tgtgtggttt tttctttttt ttattttttt tattctttat tttttattct 360
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<210> 14338
 <211> 182
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-040-Q1-K1-G7
 <400> 14338

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 agccttcttn taaccctggg gcccaaaagc cgcccgagga gnaaggcctg agtacgcaca 120
 agcggccgca gcgtcgcagt ttattcctct catacttcca gccaccgttc cccatgtcgc 180
 tc 182

<210> 14339
 <211> 197
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-040-Q1-K1-H10
 <400> 14339

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 atgtcttcac ttccatttcc atttccatta gctgcatact tactaagtaa tatttaaagg 120
 cccatatctg aataatttac ccatccaaca aaacatcctt caaatttctca tctatccatc 180

tttacctttc tcattat

197

<210> 14340
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-H11

<400> 14340

ggtcgacgcc acgcgtccgg ataaaggctt ggtctcctat tcaattctat ttagattttg 60
ctctccctaa gctgatcgaa gaggcgcgga taaagatata acctgggtca aaccatctat 120
tatttgatgc atcttcagct attcaacct 149

<210> 14341
<211> 119
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-H2

<400> 14341

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tccctactga attttaacag ttccgtttcc cagaaagggt gcccacccaa ccccccttc 119

<210> 14342
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-H9

<400> 14342

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tccagcaggg gggcggcctg tcggacttgt ccggtctcaa gagctccgcg tcgctgcccc 120
tgcgccggaa tgccacctcc gacgacttca tgtccgccgt ctacttcagg acccacgcgg 180
tcggcacgag cggctggccg tggcggggcg cgacggacgc gaagctgaag gtggccatca 240
atgggttcgg ccgcacgcgg cgcaacttgc tgcgggtgctg gcacggg 287

<210> 14343

<211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-A11

 <400> 14343

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 ccaacagcat tgttcttgcc ggaacaggtg tgcccaggct gaactctagc ttccggcgta 180
 gcctgagcat tgctactagc atgcatttgg ataatgatgt ggaggaccta gagatgttac 240
 ttgaggccta cttcatgcag ctggatggaa ttcgcaacag aattttgtcg gttcgggagt 300
 atattgatga cacagaagac tacgtcaaca ttcaactcga caaccagcgt aacgaactca 360
 ttcaactcca gcttacactt acgattgcat cctttggcat aactgccaac actttcattg 420
 ctggagcttt tgcgatgaac a 441

<210> 14344
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-A3

 <400> 14344

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 agctgacccg aatagtctgc atggctgttt tccgacacct taggagcttg tttggtggct 120
 taccgtcaga ctatagtgtc gcagaaacaa ccatcgttct tgccaaggct gtttctctct 180
 gtgtgcgcca tatggaactc agtgctctca gtgcctgtct cgcagctgtt gtctgttctt 240
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 ttaaattctgt 310

<210> 14345
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-A4

<400> 14345

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cgccacctcg gcgctcctcg tctcgggcgc gagcgcggag ggcacgcca acaggctgac 120

ctacgacgag atccagagca aaacgtacat ggaggtgaag ggcacgggca cggcgaacca 180

ctgcccgaac atcgacggcg gcgtggagtc gttcccgagc aaggccggca agtaccacat 240

gaagaagctg tgcttgagc ccacgtcctt gaccggcaag gcagatggca tcgtcaagaa 300

cgccccgcc gagttccaga agaccaagct catgaccgcg ctcacgtaca cgctggacga 360

gatcgagggc ccgctcgag 379

<210> 14346

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-A5

<400> 14346

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aggcggtcgt cgttcacacc ggcggttgcc actgccggcg cttgcggtgg caggctgagg 120

ccccgcgag cgtagtggcg tggatctgca actgctccga ctgttccatg cgcgcgaaca 180

cccacttcat cgtccccgtc gtcaagttca agcttgacgc cggcgctgac gagttcatca 240

ccacctacac cttcggcacg cacacggcca atcacacctt ttgcaagacc tgcggca 297

<210> 14347

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-A7

<400> 14347

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tcgtcgaacc agccgaggaa gccaacgcag acccagcgat cctcgtcgcg cgtctcctc 120

ccccacggag ggaaggatgg cggagcccaa agcggcggcg gcggcgagga agacgcgggt 180

gggcccgtac gaggtcggca agaccatcgg cgagggcagc ttcgccaagg tcaagcacgc 240

gcgcgactcc cgcaccggcg ccgtccgcgc catcaagggtg ctagaccgaa cccacgttct 300
 gcgccacagg atgggtcgagc atatcaagcg ggagatttcg actatgaagc tgatcaaaca 360
 tcccaatgtg gtacagctgc atgagggtat tgcgagcaaa a 401

<210> 14348
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E5

<400> 14348

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 acaactagcg gactaccttt ttaatgttgt tctttatctg ctactccggc tgtctcatgt 120
 tcaatctgct ctacagcttc acgcgcaact agttcatcct ttagtccaag tccaccatca 180
 tcgttttagtt ttccaccctc tttctccagt tttctgcat tttatataag tttcttattt 240
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 gtttttttta tttatttata tttttttttt atatttatat attttatttt ctattatatt 360
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<210> 14349
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-A3

<400> 14349

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 ggagtgtgct tcggaggggc ggtcggagca tacggtggcc gacgacctgg acggcacgct 180
 gctcattttc aggagcgctt ttctctacta ccttcttggt gctctttagt gcctcagctt 240
 tcttttctcc gtgcttttgc tactgtcttt gctctgttgt tttttgttat tatatttttc 300
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ttttt 365

<210> 14350
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B11

<400> 14350

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tcttctgggc tatgcacaag accgacttct tctcggacaa attcggagtt aggtctatca 120
gggacagcga gcatgatatg atgtccgccc tgtacctaca agtcagtatc gtgagccatg 180
ctctaattctt tat 193

<210> 14351
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B2

<400> 14351

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ccatccaaga ttctgggcac gaaggtttac aatcgccggc tcgtcccgt actccacggc 120
agctcccacc gccttgtctc ataatatcgt ctccctcttc t 161

<210> 14352
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-040-Q1-K1-B4

<400> 14352

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cttttttctt ttctattttt ttctcttttt tatttttttt attttttttt ttttttttat 180
ttattttatt aaattttctt tttttttttt tttttttttt tatttttttt tcttattttt 240

attattttatt tattttttttt tttttttttt tcttttttatt ttttttttatt tttattttatt 300
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 tatcatttttt atttttcttttt ttctttttttt ttttttttata tttttttttt ctatttttttt 420
 tttttttttta ttttcatttttt ttatatattat atttttttttt tatttttatt 469

<210> 14353
 <211> 77
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-040-Q1-K1-B6

<400> 14353

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 acaacttatt ataaatg 77

<210> 14354
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B8

<400> 14354

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 taaaacatat gggtcccaaa ccaatccaac cttttttatta ttttttattat tattttatttt 120
 tattttttata tctttttatta tttatttttta attattttttt ttttttcatt tttttattat 180
 attaatttttt ttttttttttt ttttttctatt tttctattttt tttatctttat tttatttttat 240
 atttataata ttattttattc ttttttttatt attttttt 277

<210> 14355
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-B9

<400> 14355

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gaagagatgt ccggcaaggg cgatgggccg gctatcaggc atcgagctcg gcacgacgta 120
ctcttgcgtc ggcgtgtggc agcaccaccg tttctagatc attgccaaact accagcataa 180
ccgaatctcg ctttcgtact accctgagaa ttactactag cgtgcattcg gatattcatg 240
cggaagacct atagatgtta cttgaagcct acttcatgca gatgcatggc atttgattca 300
caattgggtc agtttggctc tatatggatg acacat 336

<210> 14356
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-C10

<400> 14356

gaataatatc caccggcgac gggaacggga gtctgctttg ccggagattc gaagcgattg 60

<210> 14357
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-C3

<400> 14357

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tcgtcggcgg ctaagatggg atcgcttaaa ctgcagaatc ggctggcctt tatctttctc 120
aattttgata ttgttttatt ctttctttac ctttttttaa tcattttttc ttcatttttt 180
tattttttct ttactttttc attttttttt tttttttttt ttttttattt tttctttttt 240
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ttattttttt tatattattg tattttttat ttatttttta ctttttattt tttttttttt 360
atcttatttt tatttttttt ttttatcttt tttttctttt ttttatttaa tttttttttt 420
attttttatt ttttatttct taattttttt tttttttttt t 461

<210> 14358
<211> 394
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-040-Q1-K1-C5

<400> 14358

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ccgactccct cgctcaccag atgtaacttg cggaccaggc aaagccgagc cggagcncga    60
ccactaagat cttgcgtggg ctcccttaacc cagctcgtca ctgtaccgct cgtgccctac   120
actctcggtc cgactaacca ataattcatc catccatcta tttatcatct ctcttttttt   180
atztatttac ttactctctt attttttttt tttatttttt attttctttt atttaatttt   240
tttttttatt ttattttttt atttattttt ctttttttat tttatttttt tttttttatt   300
tcttttttat tttttttttt atttttttta tttttttatt tttttttttt attttttttt   360
ttattttatt tttttctttt tatatttttt ttat                                     394

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<210> 14359

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D11

<400> 14359

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aaagaactat gagcacatac gtttgcattt actgccatat ataatgatgg cgatggatag    60
ggtaaaaaatc ttccccaggc ctttaaattc actgtttcaa acccattttt tattcttaca   120
atcgtttagat cttttattga cagcacctat tctaaagctt caatacataa ccacacagaa   180
tctaaccctc acatgaatcc acttgatatt gatccagacc aacaacggac cactacaaga   240
ctggaagcag atcaacatcc attaacactg aattctgaca tatggaatct ctataaacia   300
cctattcata tcagaacata ttgaagaata tacaattacc ttaatcatct actaacatca   360
tcttatgaaa ctggacaaac aaaat                                             385

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<210> 14360

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D3

<400> 14360

acaacaaaa aaaaaacaac attaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaca 60
aataataaac aaaaaaaaaa aaaaaaaaaa aaaaaaaca aaaaacaaaa aaataaaaca 120
caaaaaaac aaaaaatta aaacacaaaa aataaaaca aacattaaca caaaaaaca 180
aaaaaatat aacaaaaaca aattaaaca ataaaaaat aaacaaaaat aaaaataaaa 240
caaacacat ataaaaaca aaaaaaata aaataaaaca aaaaaaaaac aaaaaaaaaa 300
actaaaaaa aaaaaaaca aaaaaacaaa ataaaaaaa ataaaaa 346

<210> 14361
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-040-Q1-K1-D4
<400> 14361

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gtctccgcac cgtggtcaga aggaggtcct tcaccgtgcg cgcctctctc cgcaaggcca 120
cctgcaccgt cgtcttgtca atggctgcc a gctctccttt ttttttctg tttttttttt 180
ctatgatgtt tttttttttt tattttttat attttttttt ttttttttta ttatcttatt 240
tttatttttt tttttttttt ttttatttat tttttcttat tttatttttt ttgtttttgt 300
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ttttattttt tttttatatt tttt 444

<210> 14362
<211> 125
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-040-Q1-K1-D7
<400> 14362

aaaaacaac agacaaaaaa aaacaaagga acaaaaaaaa aaaaaataa aataaaaca 60
aaaaaaaaa aaaaaagaa agaaaaaaa aaatgtataa cacccaacca ataaatacat 120
caacc 125

<210> 14363
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-A11

<400> 14363

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agcaagtaca gaaccaacac gttgaggctt taatgtcatc tgctgcttcc aacagcattg   120
ttcttgccgg aacaggtgtg cccaggctga actctagctt ccggcgtagc ctgagcattg   180
ctactagcat gcatttggat aatgatgtgg aggacctata gatgttactt gaggcctact   240
tcatgcagct ggatggaatt cgcaacagaa ttttgtcggg tcgggagtat attgatgaca   300
cataagacta cgtcaacatt caactcgaca accagcgtaa cgaactcatt caacttcagc   360
ttacacttac gattgcatcc tttggcatag ctgccaacac tttcattgct tgaacttttg   420
ctattaacat t                                                    431
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<210> 14364
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D9

<400> 14364

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tattaatcta accttcctaa gaatgtacat acgctggagc tctttttaaag atccaaaact   180
tttaaactgt gttgttctct ctccattgaa tacacttgat attggttgag aggtcaaaca   240
accattatc ttcctttttt taaagcacta tgaactaatc aaactctaac tcat          294
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<210> 14365
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E2

<400> 14365

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ctcgcttctt cttttttcat cacttacggt gtctatatatt tttttttttt ctattttttt 180
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ttttttttta tttttatata tatttttaaat tattttttta tttttttttt attttttttt 360
tatatatattt tattttttttc tttttatttt tacaatttat tttatttttt ctcttctttt 420
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<210> 14366

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G10

<400> 14366

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cactaccgct ccactccct tagactttat tcaaaacttt ggtggcctat cacctcccc 120
tcactctgct actctctcg ttcctctcct cctcgtctac tctcccacac atctatecta 180

<210> 14367

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G11

<400> 14367

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ctaaccaaat gatccacatt ctacaataaa gttcaaagat ttctaaaaat ctatccaaaa 120
catccttttt taataaacia tatcttctat atattattat aatctctccc tatcaaactc 180
tatacactac catattatta taaattatcc acatta 216

<210> 14368
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G4

<400> 14368

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attccgacta ggcttattac cacacaacc ctttagtctc cctcaaactg tgttaacagg 120
cgtatcttct tagattaatt ggctccaatt cttcatattc accaatttat cccttctcta 180
taatc 185

<210> 14369
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G5

<400> 14369

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atcgtgatct ccacatttcg acagtttttc ttataaaact agctacacta aaaattctag 120
gattcaagag aaaactatgt ttcagatcaa tctgtgctt gatgaggcca caagatcagt 180
atacacatct ctccaccctc aaaccatggt tgttgctgac ttatgctgct catctgttcc 240
taacacatta ctcttcgtat cctaggtgat tgtcatcata tctcgccatt tcaaataaca 300
tgtcctacaa cattaccact cacatcttca attcttctg aatgaccttc ccttaaacta 360
cttcaacaat ctctttcagc ttatccatca tttcaa 396

<210> 14370
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H2

<400> 14370

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tcaatatatt cttttctata tcacaaatca tattacacat cttatactat at 172

<210> 14371
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H3

<400> 14371

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ctgtccttct tactaccttc tgggggtccc gtcccggttct tgctcccggt ggaatggttt 120
gctcgtatga tcttggttct cgatcgactg cttatccggt ggctgcgatg ctcccgcgga 180
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<210> 14372
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H7

<400> 14372

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aaaataaaaag aattttttta aaaactcaaa agcccccaaa cttacctacc catccatcct 120
acatcatacc tctacaataa caccaccta aataaatcca caaccacaa aacaacaact 180
acataactaa aaaaccctt actaaacca acttaaacac a 221

<210> 14373
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F6

<400> 14373

attcccggtgc tctaccact cttcctagga agaacatcca aataaacctt aatttcctta 60
tcatccatca atatcaatct ctgatctttt ttcaaaattg tatgtcccta acaagcataa 120
aatcaagcac catcgcttac cacgctcaca atactctacc taacatagcc ataacattct 180

agctaataca tcaccaatat caaaatattt ccatactcat cttaaaacac taacaataac 240
tcaaaaaaact cccatatatc acaacaccat ctatgtatac ccataatcgc ttcttaactt 300
tacttt 306

<210> 14374
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H8

<400> 14374

gttcaagccc aaccgcgggt ctcacgtgca ggagtactgt ctcggtggtca gctttctttc 60
tcacctggcc gagagcctgc acaccttctt cttcctcttc gactacttgg tcgtgcgcgc 120
cgactaccgc cacatggaag ggttcggcgt gaacacgtac acgttcgtga gctctgctgt 180
gaaggctcat tacttcaagt tccactggaa tctctacttc tgtattcggt tcactcctgac 240
tttctatttt tcttttcttt tttcttattc tttctctctt tttttttttc tcttttattt 300
tttctatttt tatttatctt tttatttttt tttt 334

<210> 14375
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D2

<400> 14375

tcccatctgt acgccactct tcctctcacc acaatctatc tagctaccct tttcttaata 60
acagatacaa tacatttctc agctgtcttc atacaatttc cacaacctct catctacttc 120
ctcacttcct tccttctctc aaaaactatc attccatatc atctaatac atcctaaatt 180
atctcaaata ccttcataaa caccacacca catcatacaa tacaactaca cctaataatt 240
acatatttaa ttaacaaaca acaattatac caccacataa caatccctat accttttata 300
taactcttaa taaacattca tacatttctc ataatacccc ttcaaactt caa 353

<210> 14376
<211> 205

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D6

<400> 14376

cacacacaca caccaaactc catctaccaa cttctcacta ccattattta aagaacttct 60
 taaaaaagtt gacggccctc acccccacca tcttaatcct ccacacacac aaccttcacc 120
 atcacataat aaatgaaaat atctatcacc tctactcaaa ctcacactcc tacaccaact 180
 accaacacca acaacatata cacca 205

<210> 14377
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D7

<400> 14377

tcgaagagaa tttgtgcaga tcacaccaga ttgatgaggt gatatgggag cacatcacccg 60
 ataagagtta gcggctatct agttatggat tgactcgctt acagcagaat gaaaaagagt 120
 tagggacact acgccctggg aggttaattt agtatgcaca tgatctcagg ctctcagctt 180
 tcgcctccgt aaatattatt ttatacaaat gtacatccta gatatgtata caaagatcgt 240
 tcatggctta atgaataata ttattttata caaatacctt ataata 285

<210> 14378
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-E10

<400> 14378

ttccgcctct acccaattct tccatcattc tctcactccc atcacccac ctttcccccc 60
 cacaccaccc cccaccaaac gaatcttctt caaaatttcc cccccctat aacccctcc 120
 cacaaccac accccaaccc ccacccccaa attcccaacc tccatcaaac acttcatccc 180
 atctacatct aatccacccc caaaacacac ccc 213

<210> 14379
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-E12

 <400> 14379

 caacacacac acacatccct cccccactt ttaccaccac acacataccc aatccaaaga 60
 agatttttaa aaatttttga caccccaaca aacaccacaa tctcacctct acaccacacc 120
 tactcatcca cccaacctc acttcaaaca acatcacctc ctctctctcc atctccttca 180
 tctacatctc tacctatcac aaaccttacc accaacatcc atcatatttc tatccattct 240
 ttcactcatt acaataatta tctttacact ttctactata tctttactta ctatctccca 300
 taccactatc cctacctaca actttaacta tcttatcaat tctcacatat ttttcaccaa 360
 c 361

<210> 14380
 <211> 136
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-E4

 <400> 14380

 tcccggctcg ctccgtggcc atggcgctcg ccattctctc cgctaccacc ttcccaactcc 60
 atcaagggtgt ctctctgtcg taggtctcct tgcctatgag ctctctgtca ctgcccattgc 120
 tcctgaatgc cacctt 136

<210> 14381
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-F10

 <400> 14381

 ttcccgtctg acccaattct tcctactccc ttctatctct acctatctct atctagcctt 60
 cctgtatctc ttcagatatg acttctcttg cctccaccac ggcggctacc tctacagctc 120
 ttctgtact actactactg tcactcacct attcatcaaa catctctatc tctttataca 180

cttatattca catcatatta acacttttaa ttct

214

<210> 14382

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F11

<400> 14382

ggaattcccg gtctcgtctc gagcgccgcc cgaaaccccc aacccccaac caaactctct 60
ccgccgtcag cagccatgga tcttctcgtc ccgcctcgtc cctcgtcggg cggcgtggag 120
cccaagatcc gccaggtcgg cttcttcacc ccggatgcct ccgcgccgtc cgagcccctg 180
ccccccgcgc cgggtggcca ggcaccatcg gctcagcata ggccgggtcac ggcgtcgcct 240
ccggcgtcag acgacttctc ccaggggcgc ctttcccctg tcatgatccc tccccgcgc 300
catgccgacc acctcgcctt gggccacac cccccggctg ctgccgacgt cgtcctcgcc 360
acttctgcgc ccgtgcgttc gtccccgctc cttgacatcg tgtccgagat cggcgactac 420
tactcctggt cagcgct 438

<210> 14383

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F12

<400> 14383

gattcccgtc ctaccactt cttcctgaga cccctccact aggctaggta tttaagcctc 60
ggtccctctt catcatccat gacttctttc ctgactcctg cctgcacttc cttctatcgc 120
tcgtcctcat tctttacccc ctgttcctcg aatctcctta gtacagctct aacgtcttct 180
gccttt 186

<210> 14384

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F2

<400> 14384

tcccttctct acccactctt cctacaaccc aaaactgact tctctcccat tcatttccca 60
ccaacacgtc atccacgtct agctgggtctt ctcttactcc tcctcccttt ccttcccttt 120
ccatcaccta cttcaattcc accacttctt tccattcttt ctccatccta tcttgaccat 180
ctgcctctat ctccctcgat ctcttcatta tccattctca aattaccaat tcctttatca 240
tcactccaat cattctactt catcctatcc tcccc 275

<210> 14385

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H9

<400> 14385

ttcccggtc taccacttc ttctccatt ccttcaatcc caaacaccag tttctcatcc 60
tgaatccact aatcactgct agaacctttt ataacttttg attgacctta acactttctt 120
ctatctctcc cacaacttat ccattccctc ctactaccct cacattaaa 169

<210> 14386

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A1

<400> 14386

ggccacagct gctgcggtgg catcaggtcg ctctctccc tcaaggactt ctctcgggac 60
gacttccact tcgtggagga ctgcgtcagg atcggcagcc ctgccaagaa caaggtgaag 120
aaagagcacg catcggtgcc gttcgatgac cagtgtcca tcctggagaa ggaggccgta 180
aacgtttcac tcataacca taagagctac cctttcttca aggaaggtct ttcactctga 240
actctcattc tgtttttctc c 261

<210> 14387

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A2

<400> 14387

attcccatct cgaccactc aatccatcct catcactccc tctccactct ctctccctat 60
ctccttccct ccacactcac tacagtacct cttaaaacat cttaccccct actcaatcct 120
ttcacacccc actccattct cccactacca accccaaacc taacccttaa acattcaacc 180
ccccctttctt a 191

<210> 14388

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A5

<400> 14388

tgaattccct cgtgtaccca ctcttcctag ctgatgtttg tcaccttaac cttctcaaga 60
cattttgcat tccacattgg ggaggctttt ttatcatgtg tcctattcgt gttaagaagc 120
atttgtcacc atttttacca tctcaccag tgattccac tgttgtcttt cctctccctg 180
agaaaactga ccctcttgtc accatttctg ctgctccatg tggatctgct ttgattctgc 240
caatttccta cacatatata tccatgattg tctcacattg gctcactgat tcttctaata 300
tcgctatctt taatgcaaac tacatttcta aacatctaga gaaacattac ccattttctt 360
ttcttttatt caactttatc atttatttta ttatttatta tttta 405

<210> 14389

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A6

<400> 14389

cccactcaac caccgcacca accacaccac ccaaattcatt aaccactacc cacaccaa 60
catcagaagt ttcttaaaaa aattcacaac cccaacaaac ccaacccac aaaacacaca 120
catcacacca aactcccaat tcatcacccc acaaaaccca aacacaactc ttcccaaacc 180
cccacaaaca aaaccacc 198

<210> 14390
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-B11

 <400> 14390

 tcccttctgt acgcactctt cctcgactta ttctattgat tctttaatat ttctatctcc 60
 tctttcacca caacctctaa gatgggtttc aacttcggat cgacctgcat ctactttctca 120
 aacttcaaat tctttacaat ccattttcta ctcttcacct tcatcaacac ttacactgac 180
 ctttattata ctcacaccct ctctcactcc acca 214

<210> 14391
 <211> 75
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-B2

 <400> 14391

 tccctctcta cccactcttc ctaatctcac caagtctgtc tctttggatt cctttggtga 60
 caccataacc actcc 75

<210> 14392
 <211> 102
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-B4

 <400> 14392

 tcacttacct ccctttccta ggcttgctag tccttcaact tcaatgcttc ctaaaccgcc 60
 tccttcacca tctctacat tcttgacacc tcaaccttct ta 102

<210> 14393
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-B7

<400> 14393

attccccgtgc tctaccact tcttcctagt tcccttctac tcccactcct cattttattc 60

aactccaaca tctttcttcac agaactctat aaaaagttca ccgcccatc aaaatcacca 120

tcctcacata aaacaccaac ataataatac ataactcaa tcacaaacta cacaacctaa 180

ttaaataaca catacactca caacaattca tccaacaaat caaatataca caaacatcca 240

c 241

<210> 14394

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-C10

<400> 14394

ataaatcctt atattttcaa atataccaac cttcttaact acctactaaa tccattaaca 60

ctcatcatat aacctatcta actcaaact cttattaacc aaactaaaat aatcaaaaag 120

ccattcccat aataacctct aactaattat aatcaacctt tac 163

<210> 14395

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-039-Q1-K1-C4

<400> 14395

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tgtctacagt ntctttcaac ttcggatcaa gcttccgctg ctgctcaagc tgcaagttct 120

cttcaatcca ttttctctct gtccttttca gcaagaagta ccctgacctt tatgagacta 180

gcaccgctc tcattccacc ttcattcctt togtttcccc tgataatata ttccttcctt 240

tattcttttt attcctcttt attatttttt ttatcttttt attctacttt tttttttttt 300

tcttgttttt tactctttta acttcttttc ttatttatct tcttttttat atttttttat 360

tattttttat ttttttttat ttattttttt tttttttata tctttataat ttttaattatt 420

tttttt 426

<210> 14396
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H8

<400> 14396

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ggatatgagga gtgatcttag gaagacaagg tataacaact tcgacgagct ctacatgtac 120
tgctactatg ttgctggaac tgcgggtta atgagcgtac ctgtgatggg catcgcaacc 180
gagtctaaag caacaactga aagcgtatac agtgctgcct tggctctggg aattgcgaac 240
caactcacga acatactccg ggatgttgga gaggatgcta gaagaggaag gatataat 300
ttt 303

<210> 14397
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-C6

<400> 14397

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gaagatgaat attattctca gctagcgagg atgccgttcc tgaacgtgtc gaccaacgtg 120
aacctgtatg gcgtggactc cttctccatc ctagtctcga actactatat tatcttaatt 180
tatctataaa taccatatat tactttttta cgctttttca tcttcttttt ttttactatt 240
tacatttggt cttttttttt tttttcttta cctcaacttt tttatttttt ttattctttt 300
ttattttttc tcttttttat ttattttttc tttattattt ttttttattt ttaatttatt 360
ttaatttttt tatcattttt ttttttttat tttttattat tttattattt ttaaatattt 420
ttttttttat ttttttttt 439

<210> 14398
<211> 179
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-C7

<400> 14398

aacaaaaact accaaccaca caaaaccaca acaaacaacc caaacaacaaa acacacaaca 60

aacacacaaa caaccaaaaa aacccaaaaa cccacctcac cacacaacaa caaaaaaaaa 120

caacaaaaaa ccaaaaacaa acacaaaacc cacaaacccc aaaaaaaaaac acacacaaa 179

<210> 14399

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-F6

<400> 14399

acctagaccg aagctcgtgt tacactggca acctgagcgt gaatggccgc tattttataa 60

agtcggccag ccattcggag ggtgatgcgg ccacgacacc tgctcctgcc acagagaaac 120

cgtacatcac tttgctctac cgtcctggcc actactatat tctctacca aagtgaattt 180

tgcgcattgt tagtttcacg acttcggttg agaaagcaca ctgccagaa aactcgtcat 240

gtttcgcttg tgtgctgcc aaggtggcaa acttgctttt gagtgcctt 289

<210> 14400

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-F9

<400> 14400

tcccgtcga ccacttctt cctatcctgc tgcactttag aatattttta gtattttttt 60

tgataaataa gaaaagttgc acgatctcga ctaattactt ctgaataact tcagaaatca 120

tatggaagaa ccatagcatt tcgcgattca ttggtaaatt tactttgatt ctctatagac 180

caataatgtg agaccattaa cactgttaaa gctaaactgc ttgaagtccg gtcaaaaagg 240

ggtactcttt ctacaactac attagtatta gtctcgaaat tctttaaact gtaaataatct 300

agtgtagaat ttatctgata tataactctc atatcgatat aatagtttga actattttact 360

ataatgtcac gcatcccttt t 381

<210> 14401

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G1

<400> 14401

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tctacaggtg ctgccgtcga atcagacgct cacgccgcta cccgacctcc tctctcccac 120

gcgcacaccc acatcacgtc tgccataccc aacaacgcaa ctacacaaat ctctacccaa 180

agacaataat acccatgact agtttcacaa cttctgttga taaagcacac tgcccataaa 240

a 241

<210> 14402

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G11

<400> 14402

catggatcta cacacataca tagtttcttc tactacacga cgactaacat gggtaagcct 60

gcgaagatcg gagagtgggg tggatacgcc ggctatcgtc gggatctgag ggctactccg 120

gaccggctga tcgaggtgaa ggtcacggcg gacaacagca gctgcatccg ctccatctcc 180

ttcatctaca tcggagccga tggcaaaccg tacgaggagg ggccatgggg ttctgggcat 240

gctggctcgg agtacaagat tgatctgcgc aggttcgact agagcttgac ggagatctcc 300

aggtccactg cctcatcctt caacatcgac aatctggtct agcctcttat acttttcacc 360

a 361

<210> 14403

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G12

<400> 14403

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ttactccaaa tacacgattt tagtttgatt aattcccacc ccacaacccc ccaccacaat 120
aactttttca atctaattct tcttcaacta cctcctctct taaccaatt aatgattcaa 180
atcaaattct tctctcatat ttcccttta tcttcttctt cttctatctc cattaacatc 240
atcaatcatt ctcttattta catcttcgta tccataatct ccttctttct gtcttatcac 300
acttcttct ccttcaactt catcaccttt tcttccatt tcttcataa tcttcccccc 360
aacatcacca tatccaccta ctctttttac ttccacacct tc 402

<210> 14404

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G2

<400> 14404

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acgagccgat ggatatatca aaaatatgtc tcaatactct ctctgctcaa aactgccag 120
aggaagcaag gcatgaggaa agagtatttt gcattcctaa tgggtgcaaat ttggttagaa 180
gtgtccgct gaaaaatgat ctgaagaaa attctgtggt tgaggtttat ttcccaattg 240
aacaagacgt tggaaaggag gcaacaaggc tcagagctat tacagatctt tttagcaaca 300
ttattgaag 309

<210> 14405

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G5

<400> 14405

aagagccaaa aggcatcacc gccgcgacta cgatggcagc ctgcgtccaa gccgctgtca 60
ccctgatgca gccggccaag atcggcggcc gggcgccctt tgctcgctg ccgtcccgcc 120
cgctcgctga actcgctgc agggcggttcg gcgctacccc ctgcgccaac agaatacgt 180

actcaatgca caaccttttc ggaagggttgccc cccgtgagcg gctacttcgg ctgcctccat 240
gaacagtatc ttgcactcgc tgatttacag ctttgtggct atat 284

<210> 14406
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G6

<400> 14406

cacgcgtccg gcagcttctg cttgctctgg ggggaaggag agagagagag cgagtagaga 60
gacacgcata tactagagag gctagtaggt ggtcctcgaa cgaagatgtt ggccgtgttc 120
accggccagg tgggtggaggt gccggcctac ctgctggcgg cgggcagccg gacgccgtcg 180
cccaagacga atgcgtcgca gtcgtggggg cgcttctctg ccgcgtccga tccggccgtg 240
ttcgtgcagc tcgtctacca cggcctctct gcctact 277

<210> 14407
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G7

<400> 14407

aacacacaca gagagaggac aactcctcac aactctccct tcctcctgt aggggccgaa 60
aggtttagag agtaagagaa gtagttcatt cccttgccca acacaagaaa acaagctctc 120
ctcatcacc taatccaagc aactgcttgt gtgttgggaa attcttgtga cccctgttat 180
attattatcc gtgtagctac tagcttcatt ccccccttg taccatcaa atggctggca 240
tgtctctgca acacccttg gcgtttgctt tcggtctact aggtaacg 288

<210> 14408
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G8

<400> 14408

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gactgagaaa ctagctacac gaaaaattct aggattcaag agaaaactat gtttcagatc 120
aagcctgtcc ttgaggaggc cacaagagca gtatacacag ctctccaccc tcaaaccatg 180
gttggttgctg acttaggctg ctcatctggg cctaacacat tacgcttcgt atccgaggtg 240
attggcatca tagctcgcca ttgcaaagaa catggccgac aacatgacca cccacag 297

<210> 14409

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H1

<400> 14409

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ggatatgagaa atatgaggac aaggttgatg cttttggtga gaaggctatg actgaactga 120
agaagtatta tgccattttc gatgagaagt gcctatcgaa gattccaaaag ggccccctta 180
aggataagaa gcactagatt ggtagtaagg tatttgctat gaatcaacat ctacattatg 240
tcactagctg tcacctcttt ctctgaagga tgggtgcttg tcttgggtctc t 291

<210> 14410

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H11

<400> 14410

aaaatccaaa aatcatcacc tcctttacta ctaaacaaca ctaatacaaa aagaaactac 60
ttaaaaacat ccaccaccca tcaaaatcca tactcacacc aaaacaataa caaaaatcca 120
aactacaaca taaaaaataa actaaaaa 148

<210> 14411

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H12

<400> 14411

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ggcttaatcc agatgctcaa gtctgccact tgtcacttca cctgctacta gcacctaaaca 120

gagagatgtc tgctaattct cgagtcctgca tcttgctagg ccatttctag ctttcttgcc 180

ataattacac agtgctcttt ggaaaatacc attcagatag catgtactct acaccatcat 240

ctgtctccat atttttctgt tatactacca tatatcactc tatcacatac attctactac 300

tgtctcttac cttttctact gcatacatgc caccatcgca tcaaaccac tcaactaatat 360

acatct 366

<210> 14412

<211> 251

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-038-Q1-K1-H2

<400> 14412

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attaaaaata ttagcccacc tataatactt ttactcaaaa agctatcact aaacttaata 120

aatattatac cattttctat tagaatttcc tatccaatat tccaaaattc cctattaatg 180

ataaaaatca ctaaattctt aataaagtat tttctattaa tcaacatcta cattatatca 240

ctagctatca c 251

<210> 14413

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H4

<400> 14413

cagatccctc tcccgccca gctcgatcct gcccgatggc caccggatcg tacgcggtg 60

gcgtccgacg ctgagcaacc aggacaacga cctgcgacga ccctccgagc acccacgaga 120

tggtcgcgga ggctgcgccg ttctcctcat cggcgatctg gtcgtgtcac cgcgacgaga 180

tcaccttcga ccgcctccac aagttttgga gtgcctgtc acctcatgca cgacatgagc 240

tgctaagact tgataaacag acccttattg agcatgctcg caagaatttg cactgttcaa 300
 gggggg 305

<210> 14414
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H5

<400> 14414

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 ctaacatggg ccagattgcc tctgaacata actaccagat cactggtggt atggatagtg 120
 atcaaagaat catcttttca gaacagatcc gtggtgcagt agaacaatca gctgcacaag 180
 ctaaaagtgc aagcattgac tcagtggagg cagttaagca caaggagggc atatggagcc 240
 atctatctac aatctcaagg aataagttac ctccaaaagt tgaagag 287

<210> 14415
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-F5

<400> 14415

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 ttactgatgc ttggatggaa gtagtggctt ctcaagggca gtccttgcta tctgttgacc 120
 tctcttgctc ggatgtcact gatagtggat tcaatcttct taaagattgc tcaagcatgc 180
 aaagtttgtc atgtgattat tgtgatcaaa tctcagaaca tggacttaag acattatcag 240
 gcttttcaaa cttgacatca ctgagcatta 270

<210> 14416
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H6

<400> 14416

cagaaactaa tctcattaca ctctacttat tattcgacct tatgctttac tacgccagat 60
 actaacatgt atcagacagc ctatcaacat ctctactaaa ttactgggtcc cttcgatcga 120
 gctctaacaa taatttcttc ataacatata catcctacaa tcaaacattc agctccacac 180
 gacacaagta caatcatagc ctcatgaaat acaattaaac acaaggaggg catatagacc 240
 catctatata caatcttacg tactcaatta ctttcaaaat 280

<210> 14417

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D12

<400> 14417

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 tgctaggacg ctcttgacca cgtgctgcac aagaccttac atgatctcgg aggcaagctg 120
 gttgaggtga agcgcgcatt gcccctgtag gcgaaccact gaggtctctgg tagtgaccgt 180
 atcagagcga gtggcagtaa ccagaacagc aatggccgtt acaccagctc agatagctac 240
 gatggaagaa gcgatcgagg ctggtaccga catgctcagc aagttattga actcgcatca 300
 tgactacagt gctgaggcag actcatatgg atatgatgc 339

<210> 14418

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D3

<400> 14418

gctcgaggaa gcgggggtcc acaccttcga atactacaag atccttgccg tcgggagcga 60
 tcttcatgtt cgcttcgccc aggttcccga agctactgat ttccgcaaca cggatgctgc 120
 acgtgagatt atgagaggta tataaatgaa acctatttct gtcttggttag gatgacaatt 180
 gttgtccaat tgaagggtt cgagccaaga ttggcaattg ttgtccaatt gaaaggattt 240
 gagccaaatc ttgggtttta tactggaaat gaatagcttt t 281

<210> 14419
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-D9

 <400> 14419

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 tagacttctg ttgaaattgt taagcacgga acagaaatag ttcatagagc tgtcaccaaa 120
 tcattccagt ccctacatga accttacaaa gggaaaattg tcggtctgtt aatatccaca 180
 tttgaggctc cataatcctt aggacccat 209

<210> 14420
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-E9

 <400> 14420

 aaaaaacaaa aacaaacaaa caacaacaaa ccaaccaaca caaaaccaa ctttaccacc 60
 aaacccaaac caaccccaaa aaaaaatcaa aaaaacccaa aaccacccaa caaaaccaac 120
 acacacccca cacaacaaac acacaaccaa caccaacccc accatcaaaa ccccaaaacc 180
 caccaacaaa caccacaacc cacccaaaca caaaacaacc acacactaac acccacacca 240
 aacaccccaa accaaacccc cccaaaacac caacacaccc aaaccaccca aaaaca 296

<210> 14421
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-F4

 <400> 14421

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 cctgtcgtcg tgtccacgcc ctacagcgaac ccctagcact cggtcgcgca caggcacaac 120
 gcagcgcact cgcgccgtcg gcattcagcc gtcgcggact cgccgcccac ccagggtcca 180
 ggctgggaga gtggcagaca cccactccgc cactcgtcct cagccaccga ccaccgtccg 240

tgggttccccg ttegccaccg gccaccgcca gtccaccacc ctcccggcgc gccgtgcccc 300
tacttc 306

<210> 14422
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A11

<400> 14422

taaaaaaaaag ctagaccccc caacaaacaa caccaaccac ccaaccacac tacaccacaa 60
caccacccca aaaaaacacc aacaccccaa cccaaactaa ccaaaacaac cacaaaaaaa 120
ccccccacac caccaaacac caaccccaac accccaaacc ccaatccaac ccacatacac 180
aacacaacct acccaa 196

<210> 14423
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A3

<400> 14423

ggccaagatc caggacaagg atggcatccc ttccagaccag cagcgggtca tgtttgctgg 60
gaagcagctt gaggacgggc gcacgcttgc cgactacaac atccagaagg agagcaccct 120
ccacttggtg ctgcgcctca ggggaggcat gcagatcttc gtgaagaccc tgaccggcaa 180
gactatcacc ctccaggtgg agtcttcaga caccatcgac aacgtcaagg ccaagatcca 240
ggacaaggag ggcattcccc cagaccagca gcggtcatc 280

<210> 14424
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A6

<400> 14424

cggacgcgtg ggcgcgtggc tgctcttcca gtactgctca cgccagcaca acaggggtca 60

gccaacactt atcctcaact ccagctcgcc cagccccctct ctgtttgtgg cgtgctccag 120
 ttccccatgg cgtcggtcct caacctctag gcaccagtcg cccctactcc ctgctcctgt 180
 tcctcccatg gtgtcccagt caagtttgcc ctagccctct ccctcttggg tctttgctgg 240
 tcacgtcctt ctccatgggc gcccaggtct cttccccgtg gtggcagacc 290

<210> 14425

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A8

<400> 14425

gcacaccaag gagagtacgt ggaggagcag ccatggcttc atcgggtggcc gccgcgggga 60
 gcacattcct gggcaccgcg ctggcgggacc cggcgccaca gaacgggcgc atcgtggccc 120
 ggttcggggt cgggttgggc ggcaaggcga agcctgctcc gaagaagggtg gcgaagacat 180
 cgacctcttc tgaccggccg ctgtgggttc cggcgccgtt ggcgcccgc tacctggacg 240
 gctcgtgggt cggcgactac gggttcgacc cgttcgggtct cgggaagccc 290

<210> 14426

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A9

<400> 14426

accacccaa aaaagatttc aaacaaaacc ccccccccc accaacacca ccacaccacc 60
 cccccacca ccacccacc ccccccccc cccccatata acccccaacc cccccctccc 120
 cacaccacc ccaaaccac caccacacca cccccccca cccccaacc caaaaaccac 180
 acacacacc ccccccaac 199

<210> 14427

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B11

<400> 14427

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ccgcctactc ctctccaatt ctactttacc aaccgcatca gcgagagcta gactgataat 120
gaccacttca ctttccctcac tcataaccta ccattctctac tacctttaca actctcaaac 180
acattttttc tataatcaat ctatataata tcattttccat tttaatacta ttataatatc 240
catatcattc tttctttcttt taccatattt ctttttttta ttcttttatt ttttttttat 300
ttttttctat ttattatatt tttattctgt ttttttttat ttttttcttt tatttatattt 360
tattatatat tcttttttct atttattttt tcttcattat tatatatatta tattttatttt 420
aatatttttt tataattttt tatatttttt 450

<210> 14428

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B2

<400> 14428

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aggagaatgc tccttgcata gtgttggttg atgaaattga tgctgttgga aggcaaagag 120
gtacaggtat tgggtggtgga aatgatgaaa gggagcagac tctcaatcaa ctactaactg 180
agatggatgg tttcgagggc aacactggaa ttattgttat tgctgccact aaccgggctg 240
acatattgga ttccgcttta cttagacctg ggcgttttga tagacaggtg tctgtcgacg 300
ttcctgatgt acgtggaag 319

<210> 14429

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B3

<400> 14429

gcgcggcggc tgggtggtggt gaggataacc tggagctgat accaggtgtc atggagcttc 60
tgtccatggg gatatctgtc ttctccggcg aggttatatc cctctgccgc aggcttggtt 120

ctagggtagc agcgctaggc gcttgagagt cattgcaaga gagagagatt ggtttaataa 180
 tatattcctc cttcctttgc ctctgcgta caggcctata tataggccac cggttgacca 240
 actaggcaac cactaattag gcaagtgact aattggaatt at 282

<210> 14430

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B4

<400> 14430

actgaaaacc ctttcattac ccaacttaat cccttcacca catcccactc accccatcat 60
 ccatataact aaaccaccca caatccccta cccaacaatc ctcaactcaca a 111

<210> 14431

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B6

<400> 14431

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 tgctgaaact cataaagggt gtctatgagc accatcctcg accaaaacag ctcatagtag 120
 agaatgacct ccctcagaag ctacagaacc tcattgaaga gcgcagggat ggacaacggg 180
 gcggccaaca agtggttggtc aaacaaatgg ccacctcatt gctgaaagcg ctgcacatca 240
 atacagtatt gtgatattgg tggatcatat gttttcctct caagttgtat atg 293

<210> 14432

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-C1

<400> 14432

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gtgcccacaaat taacattggtt acctagcctg agacctaccc atgcttgatt tctctactgc 180
aagttttcact ttcttgcaca cgtgagattc ctgggttaacc aacgaccatt gaagaagcag 240
ctcgcagaat tgggttcaatc cagaccacat atgctagaag aattgaaaa 289

<210> 14433

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H9

<400> 14433

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tcggcgatgg cggcgactat cgaaggcgtg aaggcgcgcc agatctttga cagcctcggc 120
aaccctacag tcgaggtcga cgtgttttgc tcagatggaa cctttgcaag ggcagctggt 180
cccagtggag catcaactgg tgtatatgaa gctctggagt tgagggatgg tggctctgac 240
tatttgggga aggggtgtctc caaggctgtg aacaatgtga attctgttat tggacctgct 300
ctgattggca aggaccctac agcacagact gagattgata acttcatggt tcaacaactt 360
gatgggacca aaaatgagtg gggatggtgc aagcaaaagc ttggtgctaa tgcgattctg 420
gctgtgtcat t 431

<210> 14434

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-C4

<400> 14434

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ttaaccaatc ttagcctggc acctactccc caatcgcaca tgaagttcct aacggcacac 120
actcggccaa ccgagacgac acacgcggat attagaacgt ctcatactat aaacctaaac 180
acaggcatca ctaacttact atgcacaaaa ttcttctata acttcaaaca agagaactta 240
tcaaagcatg tacacaaaca aaatatcaat acacaat 277

<210> 14435
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-038-Q1-K1-C8

 <400> 14435

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 tccatgctcg cctcgagatc ttagcgggca gctccggaga gcgccgacga gccccctgat 120
 cctcctcgc cgcgcgcgcc aaccgaccgg gggaggagag gaggggaggg gagcgatgga 180
 gaccgccgac tactccggga agctcttcgt cggcggcatc tcatgggaga cggacgagga 240
 ccgcctccgc gagtacttcg gccgcttcgg tgaggtcact gaggccgtca tcat 294

<210> 14436
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-F11

 <400> 14436

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 gtaagtatcc atacaatgcc atggatgccc gaacaagggt cggaatgcgc tcaaccccat 180
 ctcatgcctg cagcagctct ctacctacgc ctagtatcac acgatgactg taactatctc 240
 actggacacc tactcgtc tta 263

<210> 14437
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-F4

 <400> 14437

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 tatcattact caaatactta atctatacat ctatcttcat cccctttctt attcttcctc 120
 tttatatata ttttcaccta atctatctttt gcaaaatata cttcatctct tacctctatt 180

cttatctcct ctctcttctt ttcacctcca ctttcatatc tatactatct atatattaaa 240

<210> 14438
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-G10

<400> 14438

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tcaactcaa tgaagataga acttattcac acatatggca ggcacagcaa tcaaagcacg 120
aatctgacgt agactacgac caccacgctc ataacaacca aacctcccaa ataccatcca 180
ctaactaaag ggaagggtcaa tactctaata acatcatcgc ctagtaccat gctatcaacc 240
ccaactgccg ccaccatcac catactccac gatctcttac ttcacctctt ctactccatc 300
attcagaatc ctctctctc tatccgact 329

<210> 14439
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-G9

<400> 14439

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gggtccactt actacctcag ctcacccctc caccttcctg cttcttccgc ctttaatcac 120
gccctctca ccattcacat gactcactct aaatcctacc catccaacac gtctcttacc 180
actacatacc acccctaccg cactcccttc ctcggccac tcttccaacta accaccatc 240
tacctcacta actatttaac catctactac atactattca cctaccttct ttcacccaac 300
ccacaaactc tcacacacaa cctacatctc catgtaatcc actcccatc agacattctt 360
gtcactct 368

<210> 14440
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H10

<400> 14440

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tttactaata ttgaaccttc acaacaacac ctttttacac ttcatcatta actgacgtat 180
attaacctct gaacttcaag gataacatct ccgactattc tcttaaacct gtctccaacg 240
ttataaacia cttcaattct attattaaac ctgctctaatt tttcaattac cctacttcac 300
atacttacat ttataacttc atgtttcaac atctttattt taccataaat tactttatat 360
ttttcattc 369

<210> 14441

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H12

<400> 14441

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aatctttatc tctttcatct accctattct cttctcctac ctcttccttc tcttaattcta 120
ccaaatattc atttaattta taaattacat ttataccttc ttctaatacc ttttatccaa 180
atttcaattc tttcttcaat cttttttcca aaaatatctt atacttttct tctcatatt 240
gatataaaaa ctttc 255

<210> 14442

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-037-Q1-K1-H2

<400> 14442

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atggagctcg ccgagccctc ccgagtcgag gccctgctc ccagcgtcac gatccccagc 120

tccctctgctc actcggctgc tcgcgcgcgc gccttgcctgc tcgcccgtcc gcgcggcact 180
 tcgtctatgg ccgctgtccg ccgtcgagtt cctgtacgcg cgcctctggt tcgccattgc 240
 tctctgcgcg cgcgctctgc tcggcgtctc catctcctcc tgtgctccag ctgcgtgtcg 300
 ggacggtttt tcccatggcc ggcatgctc cagtcctctg cgcggcggtta ctccctgccg 360
 agcacctncc agccgaggcc cttgtcttcc atg 393

<210> 14443
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H7

<400> 14443

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 tttttttttt tttttttttt tttttttttt tttttttttt ttttttagat ctttaatcat 180
 tttttttt 187

<210> 14444
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H8

<400> 14444

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 cggcctccac caccgcgcgc gcggcgctcc ccaggaatgg gcagcagcgg gcgtcgtcgt 120
 cgttgttctc ctctcctcc tcttctctct tcctcgtcgg caagacgctg ctgaggcagg 180
 ccgaggcagc ccggcgcgtc ttcgccgtgc gcgccgcggc ggattccgac aggccgatct 240
 ggttccccgg cagcaccctc tcgtcgtggc tcgaccgcag gccttccggc gacttcggct 300
 ttgatccctg ggg 313

<210> 14445
 <211> 296
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3060-037-Q1-K1-C1
 <400> 14445
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 tagtctgccc tctctcttc atcgtccttt cttactaagc cagtggcact ttccttggtt 120
 gctctaactc cctaacgtgt gtcggttctg tcttctagca tattctcctg ttgctatctt 180
 ggattcttac ttatattctt tcattcataa ttcctcacac tttatcttct ctccactgtc 240
 tttttaacca atctctatta ccaattgttt gaatcaacag ttccttttct tactat 296

<210> 14446
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-037-Q1-K1-C10

<400> 14446
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 caccatggcc ctctcctcca cggccttcgc cggcaaggcc gtgaacgtgc cgtcgtcgtc 120
 cgccttcggc gagggccgcg tgacgatgcg caagacggcg gcgaaggcca agccagcggc 180
 ggcgtccggg agcccgtggt acggccccga ccgcgtgctg tacctgggccc cactgtccgg 240
 cgagccaccg agctacctga cgggcgagtt cccgggcgac tactgctggg acaccgcggg 300
 gctgtcggcg gacccggaga cgttcgcca gaaccgggag ctggagggtga tccactcccg 360
 ctgggccatg ctgggcgcgc tcggtgcgt cttccccgag ctgctcgc 408

<210> 14447
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-037-Q1-K1-C6

<400> 14447
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aaccccacaa ttttttgggt cctacttatt ttcattgtct tcggaatagt ataataat 180
aatttggaat atctgccaat atcttgggaa aatctaagtt aatgattaat aagataaaga 240
atztatgaag gatattctca tattgactca atacaaagat aagtatattc aaaatctatc 300
ccttttttagt taaaggatat ctacatctga gcatcccata atatctaata aatacaaaat 360
cgaatatctg ataatccctt atgaaagaaa ctgaatacat tcttttaata 410

<210> 14448

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-D10

<400> 14448

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gatcctctgg ctgctgcgca acagtttgtt catcctcatc cccaatctca tgtgtccaat 120
acacagcaaa agatgcctcc ttattgaaac tggttggcat ctgcaacaga cgcttcctgt 180
tagttccaga ggcactgcca aggatctccc cttcatgag gtcatatatg caggccctga 240
agttgtccat gctcttatga tcttgagagt cgaggcttat gaagatcaga atttcccagc 300
tccggatgaa ctgtttcttc tttatcttca gcttctaacg aacagtctcc atcaggtcag 360
ccggtggaac cattctcaaa ctttgggccc tttttgaca 399

<210> 14449

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-D4

<400> 14449

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aatcactgct ccttccatct ccgcattctt taatacgagg ggggcccgatc tccccactgc 120
tccgataacg gtctccccag gaggtgcaag gcttcttctg gcaggacatt aaacacctca 180
caaattccgc ttgtctcgag ccatccacat gtgtatgacc catgtgatga ttcctttacc 240
cttgtagat tcaactactct caaacaaggc acaactcttg acactacatc tcaaggtta 299

<210> 14450
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-D7

 <400> 14450

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 gaggacggcg acagggagga gggaagctat ccgacgctgc tgcagcgggtg gtcctcgtcg 180
 gtgtggggcg tcagcggcag cgggcgcctg ctgtggggcg gcaacgaggc gtggcggacg 240
 cacgtcggga tggccctcgt tcaggtcgcc tacggcggct accacgttct caccaagtcc 300
 gtactcaacg tcggcatgaa ccagatcgtc ttctgctct a 341

<210> 14451
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-D9

 <400> 14451

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 atcttaccaa tatttggcag gcagataaaa catttactaa ccaattcaca tatcaatcaa 120
 ccacttctga aaacattcct aactttactc aagaaaaacc ttatcatact gataagatac 180
 aaaatttcat aaacatacct cacaattcat gaataaatca ttgatcaaat agacctcctg 240
 caaaagaaac tcaaacaact ccaaatagat aaccttaatc actactataa tatctcttca 300
 cctatacaaa t 311

<210> 14452
 <211> 172
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-E10

 <400> 14452

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tcaactcact tctctctctc cttcatctca ttaatcttcc cattcactca atctaccaca 120
cctcaatttt tacatccata cactcattaa aaaactcaat ctccatccat cc 172

<210> 14453

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-E11

<400> 14453

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ccttttaacc caactcctca tatccaatcc tttttcataa actactcatc cttttttcca 120
acttcccttt cctacattaa tccatttacc ataatctggt caccttttac acctaatctt 180
ttataaatac tacctatctt ttactgaatt ctatcctcct tattttcaat ctccctctct 240
ttctcaccta acacctctca atctcactac tcttccaaca ctttttccct acctcctgct 300
taaccaatta caacattttc tatcccttaa tcatataata taactcttac ct 352

<210> 14454

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-E5

<400> 14454

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tagctttggg ataccaacta agcgatcagc attcaggaac acgggggtga tctttcgtcg 120
ttaaccccc atgtacatgg cttttttgag gtgggatagg aatggcggtt gtgtttccca 180
tgaccattct ttgtacgtca tgaagctcat cttcaggatg ctcttatata tagagaaatg 240
ttattcacat cacatctcgt tttcacttg tatagcgaat cttaac 286

<210> 14455

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-E9

<400> 14455

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gtatccaaac tacgtcatct catgttaact accacttctt attccacaac ctccacttta 120
ccacatacca ccactccctc cacaacacct tcatcaccta ccaccaactc ctccaatoca 180
atatcattct ccatcataat actcactaat cctctctctt ctactctcat caccttctcc 240
a 241

<210> 14456

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H5

<400> 14456

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cttgactggg acaagggccc aacctactt gaggtctctg acttgatcaa tgagccaaag 180
aggccttcag acaagcccct gcgtctcccc cttcaggatg tgtacaagat tgggtggtatt 240
ggaactgtcc ctgttggaag tgttgagact ggtgtcatta agcctgggat ggttggttact 300
tttgggccta ctggtcttac tactgagggt aagtccgttg agatgcacca tgaggctcta 360
caggaggccc tttccggtga caatgttggc ttcaacgtga agaatt 405

<210> 14457

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H7

<400> 14457

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cgcagtgggc gtgcaccacg agcgtggact tctcgtggc gcactctgac caggtgatca 180

tcttgcgtgag caccgtcggg gccaacggcg ggggctacct cgcctccaag tacgtcgtgc 240
 ttgccatcta caccgccatc ctgcgtcgtgc acggcctcat caacagcctg cacatccagt 300
 ggctctcctg gttcggacag ctcgagacct tgtggaacgt cgcgggcgtg ttcgtgctcg 360
 tcatcctggt cccgt 375

<210> 14458
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-036-Q1-K1-H8
 <400> 14458

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 gctcagatgg aacctttgca agggcagctg ttcccagtgg agcatcaact ggtgtatatg 180
 aagctctgga gttgagggat ggtggctctg actatttggg gaagggtgtc tccaaggctg 240
 tgaacaatgt gaattctgtt attggacctg ctctgattgg caaggaccct acagcacaga 300
 ctgagattga taacttcatg gttcaacaac ttgatgggac caaaaatgag tggggatgg 360
 gcaagcaaaa gcttgggtgt aatgcgattc tggctgtgtc attagnctgt tgcaaagctg 420
 gggc 424

<210> 14459
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-H9
 <400> 14459

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 tctctgctgc tgccgcccct caggtacttg gagttggcaa tggagacaat cacatgagaa 180
 tcatccagga ggacatcatt gagacagtca acaaccatcc cagtgtctggg tggacagcct 240
 cacgtaatcc ttacttttca aactatacca ttgcgcaatt taagcacata cttggagtga 300

aaccagcacc acagaatgca ctaagcaatg ttctctgtcaa aacttattca agatcactgg 360
aacttccaaa agagtttgac gctagatctg catgggtcccg ttgcagcaca att 413

<210> 14460
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-A10

<400> 14460

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gagggatgat ttagagtcac tggcatacac ccttattttc ctgataagag gaagattacc 120
ttggcaaggc taccagggag ataccaagag tttccttggt tgcaagaaga aaatggctac 180
ttctccggag atgctttggt gttattgtcc agctccattc aaacagtttc ttgagattgt 240
cacaaatatg aaatttgacg aagagccaaa ttatgccaaag cttatctctc tttttgatgg 300
gttgattgaa gcacctgctt cgagacaaat cagaattgat ggggctctca aggttggaca 360
gaaacgtgga agattgggtg cagatctaga agaagatgaa caacct 406

<210> 14461
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-A11

<400> 14461

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gcacacgcaa agctaaacgt ggcgatcaac ggcttcagcc gcacgcggcg gaacttcctc 180
cgatgctggc acggccgcta ggactcaccg atcgacatcg tcgtcgtgaa cgacatccga 240
tgcgtcatga actcgtccca cttctcaag tactactega tgctcgtcac cttcaatgcc 300
gacgtcaaga tcgttgacga cactaccatc atcgtcgacg gcaatcccat cacggtcgtc 360
ttcatcatgg accccctcaa gttccatgg tgtgatct 398

<210> 14462
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-A7

<400> 14462

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 tcccttcaca aaacctccaa acc 83

<210> 14463
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-A9

<400> 14463

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 tcatacataa tccatttctca caactaatct ccataattaa ccctaacttt tcaccatgat 180
 ctatacctat taatactacc tattcatatc tcactttaca ctcacataat catacatact 240
 cctatctatc atattcatct acataatata tctaactatt cttacctcaa agacacttta 300
 tatcataact cctaattata taccatacct aatcaactcc cattaacaat acatttaaac 360
 taaaatt 367

<210> 14464
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-B1

<400> 14464

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 caagctgaag tactactacc cctctcctcc gcctcggtc acggtgttct cttctggccc 180
 gccttctgcc tctccgtccg ctgtcttttc atttattttt ttttattctt cttcttttat 240

tttatttttta ttttattatt tttattttttt tttcataatt attttattttt ttattttttta 300
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<210> 14465
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-037-Q1-K1-B11
 <400> 14465

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 ctccccgaag tcttccaagc cgctctcctg gctcgtccgc tctcgcgct acgcccggcg 180
 ctatcacgcg cccgtcttcg cctcgcggg catgctcttc gctgccacta tcttcacctt 240
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 tgccgtcagc tgacaccggt ccttccgcga gtccgtcggc gggaagggtt cctgtgggt 360
 gcttcgggtc tcgctgcggg tgctcg 386

<210> 14466
 <211> 272
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-H11
 <400> 14466

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 tcccattact tattttacat cctcacataa tccttacttt tcaaactata ccatttctca 180
 atttaatcac atacttataa ttaaaccaac accacataat aactaatca attttccttt 240
 caaaacttat tcaatatcac tttaactttc aa 272

<210> 14467
 <211> 410

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E7

<400> 14467

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caatactggc atcagatcga tgtaacacac tgggcttgga gcttccagtg agtcattaga 180
aaggtaaatc tgattctatt tgtgtacttt acctgaaaag aagtcgaagg gttggctaca 240
gtagtgagag ttatctcacc aagttacaag gtttaaaciaa tccctaaggc ctgggtttggt 300
gaccagggac cacgagagaa ttctctctca tggatccctc cgtcatccta gtcaccaaac 360
ctatcctaag tatttgtaag gaaaaaactt gcctctgacc ctactgatgc 410

<210> 14468
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E8

<400> 14468

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tcacttctca ctctacttta aatcataaat cttcccatta acatcgatct aatacactcc 180
tattttaaca tccacacact cattataaaa ctcaatctac atctatccat acactttacc 240
tcaaaacaat ctaattcctt acctac 266

<210> 14469
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E9

<400> 14469

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tcggcgccct cgccctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180
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 gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
 aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag 360
 gctgcggcgg cggcgggtac ggtggt 386

<210> 14470
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-036-Q1-K1-F3

<400> 14470
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 catcaagtcc atgcagatcc accacgagge ggcgccccc aagctcccct tcgagccgga 300
 gaagctctc aacctgcact cctccgcccc cgtgctgct gccgccgtcg ccgncactgc 360
 cgaggccacc aacttcaagc ccaagcccg cgtncgcggc agcctcaaga agtaagcttg 420
 ctg 423

<210> 14471
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-F4

<400> 14471
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 gtcacagaat gaagaaagag tcaaagagaa ggaggagaaa gatcttggtg ctacagagaa 180

catgtatgcg caattgcttc ctcttgcttt gcctgctccg tcaatgcctg gcatgggtgg 240
 ccctccacct tcgatgggtg ggatgggcat gcctacaatg ggtggaatgg gtatgccgcc 300
 gatgggcctt ggtccgatgc cagcattcgg gatgccagca atgggaagct actgagatgt 360
 ttttgagag agcttagacg atgatctgaa tcgtccctgt gtaagcgaaa gtggaaac 418

<210> 14472
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-F6

<400> 14472

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 cttccagagg atgaagaact acaccatcta tgcagtttcc atcacaatcc gtatagtgtc 300
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<210> 14473
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G1

<400> 14473

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 aggtgttgag aagaatgttg gtttgatcc aagtgatect attgttcaat tggcagttgt 180
 gcttggaggt tcagtgacaa tagggacaac gtactggctc ttcacatata gtggctattc 240
 tggagacttg tcacctgaat cagcgtttga cttattgaaa aacgatgaca aagccgtact 300
 cattgatgtt cggcctgagg atttgagggg aaaagatggt gttcctgatc tacgcctcgg 360

ggctaggtct aaatatgcaa gtgtagcttc gctgagatc aaagatccag taaagagt 418

<210> 14474

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G10

<400> 14474

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tcacaaactt cgcgggagag gccgtgaacg tgccgtcgtc gtccgccttc ggcgaggccc 120

gcgtgacgat gcgcaagacg gcggcgaaagg ccaagccagc ggcggtgtcc gggagcccgt 180

ggtagggccc ctaccgctg ctgtacctgg gccactgtc cggcgagcca ccgagctacc 240

tgacgggcca gttcccgggc gactacggct gggacaccgc ggggtgtcgc gcggaccctg 300

agacgttcgc caagaaccgt gagctggagg tgatccactc ccgctgggcc atgctggtct 360

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<210> 14475

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G6

<400> 14475

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cgacggctgc cgcgtcggca ttggggacgg cagaccggtt agcggtcagg cagcggctct 120

acaccgagct gcagctgttc aacaggaggt ggaagaaggc cgtggcggag gacgggtgct 180

ggaccgacct ttaccgaac ccggcgacga ccaccggctg accgttggaac ggagcgaggc 240

agcgcaggga agtacagtag ttggtagctg tcagattgac cttgcctaga agatggtagt 300

agatcatata ctgcattaa ttacagggtt cacagagagc tatacatata atgtacagaa 360

ctacagattg ttttttttcc 380

<210> 14476

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G7

<400> 14476

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caactgctcc gccgccctgt cctccgccga gtccagcagc ggcaccagtc cggacgcagc 120

tctctctctc cgtcgcggaag ctccgcgtca cggccgcgct cgtctgcggc tctggcggtc 180

ccgctgccgt cgtcgtcgtc gttccggccg ccgctcaggc cgtcccgttc gtccgtcttc 240

ctcctcctcc cctgcaagga aggcccttag cgtcctccac tccttacgcg cagtcccaga 300

agctgcagct tggcctcgac aagctcgga agatcaggcc atgcccgtcc accaaccggg 360

ggtgcgtgtc cagcaaccgg ct 382

<210> 14477

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G8

<400> 14477

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tctcccttc gatccaccaa ggggttagga tcggcgggcg tggcgggcag gctggcacag 120

ctgcgcgtc aggcggtgca ggcggcggag ttcgcctcga agcacggcgg ctccctactac 180

aaggagctca tggagaagaa caagcagtac gtcgtgcagc cccccaccat cgagaaatgc 240

caggagctct ccaagcagct cttctacacc cgctcgcga gcctaccagg tcggtatgag 300

tcattctgga aggagcttga tgggtgtcaag caggatgga agaacaagaa ggacctcaag 360

gttgaggacc ttgggattgc gactttatct ggagttgagc tttatgcatg gttctgcgt 419

<210> 14478

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E6

<400> 14478

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 aacgctacgt catcacaggg ttggctgggg ccggaagggg agagcacgac tggcgtcgga 180
 ggacgtgggg aagaacgaac ctgaggggtga aagcgggtggc ggcagagtcc cgcagctcgg 240
 aggggggaat cgctgaagat tattacgctg ttcttggcgt tatgccagat gcaacgccga 300
 agcagatcaa gaaagcatac tacaactgca tgaaatcgtg ccatactgat ctgagtggga 360
 atgaccctga cgtgacaaat ttctgcatgt tcatcaatga agtttacacg gtgc 414

<210> 14479
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H10

<400> 14479

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 acttattata catccttaca taattcctta cttttcaaac tataaccatta cacaatttaa 180
 acacatactt ccatttaaac cattactcca aaattcacta aacaattttc actcaaaact 240
 tat 243

<210> 14480
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D12

<400> 14480

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 ctttagtacc ttttacatcg agaaggcgca catttgacag tccaagagt cctggaaggc 180
 aattctcgga tagccccaga agacaaacta ttgctgctgc agtatctttg tttggagctg 240
 atgatagatc caatcctaga cttgatgaac tcaataagac catgcagtca ctttgcattca 300

tggctcataa tgtatggata acatgggtgt ccaccgaatt atctcacatt ctttcatatg 360
 atatcagcaa agatgattca ctatcctctt cg 392

<210> 14481
 <211> 265
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-D3
 <400> 14481

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 cctccagctt gtgcttgctg caccagacca ccattgcacgt gctctcgccg tatacagacc 180
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 ctactccttt aaacgacatg ttgcg 265

<210> 14482
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-D4
 <400> 14482

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 tgccataata tcgtggggta ttctttggcc atatatctcc acaaaagctg gggactggta 120
 tccagctgac cttggaagca atgacttcaa aggactctat ggatacaagg tttttatata 180
 tgtatctgtg atacttgggg atggtcttta taacctcatc aagatcattt atgctactat 240
 caaggaaata atgaatgcac gggctaagca aggaagactg ccactagccc aagttcagga 300
 tggcgatgaa ggttcaaatt tatcagctga ggaaaagcat ctgaatgaga cattcataaa 360
 ggacagtatc cctccctggt tggcaggatc tgggttac 397

<210> 14483
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D5

<400> 14483

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tatcagaata tgacctggga ggagaagggg acctgttcaa agctccagaa gccatcatcg 120
aggaaccgct gctcctgaac tgtctgtctg attctgttca tttgttggtg tgtaggctgg 180
gcttgtgcca agcttgaatc ctcttgtgaa ggagtttctc aatgctgctg atgacaagcg 240
gaaggaagtc ctctctaaaa tagaagagga tgttgctaag ctgagcggtt ctgcagccaa 300
ctaagaagct acaagtgaat gccgaggaga gcagcgatga cttggctaac ccaccgaaag 360
tagaggagaa gcttggt 377

<210> 14484

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D6

<400> 14484

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acaaacttcc gaacacagat gaaagtatca tacagcaagc agtacgctat ctttcccaga 120
caaaaagcga cagcacgtga cgaccagctc gtgggcaaaa tgggcgtccg agacagcagg 180
acgcagatcc cactgcacaa gtgaaagaag gcctgaccaa ggcagcgtcg ctctcccttc 240
agttcagcgc caggtaagta agctgcccgc cctcatttgt tccgaactgt ctgttccgggt 300
ggtcttggag gagccatgcc agcagcatca gagcctctca tgatcctaag tttccggcaa 360
aatgtggtga acaagtccca aggcagatca ccaacgagca tccagtcagc atctttatc 419

<210> 14485

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D8

<400> 14485

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ttagctaattg cggctcatat tatgctctgt tcaacatgtc atgatgccat accattaaca 120
tatcaccttc cctacaaaca acacctccaa gccaaactgg cattcgagta gtcattgtct 179

<210> 14486
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D9

<400> 14486

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ggaaagtgtc cttatgttgt aattggaagg gttattttca gcattttggg gatattcatg 120
gctgcggttg tcacatatac tgtcatcact gatggactac cttttaggaa ggaattgttg 180
acaccgtgga tggcgggaac ctttaattgat ttctacataa atgtctttgc gatatcggtc 240
tgggttgctc acaaggaatc atcatggata tcaactacca ttggattgt cttgctgata 300
tgctttggaa gcatacaaac atgcggctac attgtcatcc aacttttcaa agtatcatat 360
caagatccaa tctaccacgt gctattgaac toccacagca ggtaccacaa t 411

<210> 14487
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E11

<400> 14487

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cgtcttcccc gagctgctct cccgcaacgg cgtcaagttc ggcgaggcgg tctggttcaa 120
ggccgggtcc cagatcttca ggcagggcgg gctggactac cttggcaacc ccagcctgat 180
ccacgcgcag agcatcctcg ccattctgggc ctgccaggtc gtgctcatgg gcgccgtcga 240
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cagcttcgac cccctcggcc tggccgacga ccccgaggcc ttccgccgagc tcaagggtgaa 360
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<210> 14488

<211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-036-Q1-K1-E12

 <400> 14488

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 gccggaggca aaggcaagat gttcggggcg gcgccgaaga agagcgacaa caccaagtac 180
 tacgagatcc tcggggtgcc caagtcggcg tcccaggacg atctcaagaa ggcctaccgc 240
 aaggctgcta tcaagaacca ccccgacatg ggcggtgacc ccgagaagtt caaggagctc 300
 gcacaagcct atgaggtttt gagtgatcca gagaaacgtg agatttatga tcagtatggt 360
 gaagatgccc ttaaggaagg aatgggcggg ggaggatccc atgttgatcc atttgacat 419

<210> 14489
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-E2

 <400> 14489

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 ggcggcgggg gtgagggcgt accacgagcg ggtggtggac cactacaaca acccgcgga 180
 cgtaggttcc ttcgacaagg acgaccccaa cgtcggcact gggttggtcg gcgcgccggc 240
 ctgcggcgac gtcatgaagc tgcagatccg cgtcgacgag aactccggca agatcgctga 300
 cgctgcttc aagacttttg gctgcggctc cgccatagcg tcctcgccg tggctactga 360
 atgggtgaag ggaaaaccaa tggatgaagt tttgacaatc aagaacacgg agatcgcgaa 420
 gcact 425

<210> 14490
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E3

<400> 14490

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gagggaggcc atcttttctt gctcggttct gtcgtgcaga cgggaaagat tgagctgata 120
tgctgctagc tggggatcct gcagaggcta ccgcgttctt cttgtctggg gtgcacagtg 180
catgggcagt ggggtgaactg gtagagagca agatggggaa ttgcatcgac accacggcgc 240
gggtggatca cagcatgaac aatgctgcct acccatcaaa agtgaccagc aagacaagtt 300
tgtcgtcaat cccttccaca attaagagca actcaagtcg ttcaacactg actcttccat 360
caatgagaga tcgaaatgag cttcctactc ctcgacaga aggtgaaaat ctggcatctt 420
ctaa 424

<210> 14491

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E4

<400> 14491

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gatatttcgg aagagggagt gcgtgccttc ctctcagctg attcgccgag gacacgagat 120
cctctagagg gttgtgctgt ttggcgtgag gctttggggg cgatttgctt tgctcgcata 180
ggggatcatg tcgctgtgga tgttggggag ctggttgcgt cccgagtcgg tgaggcagcg 240
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atttgccagg aggaggacct cgaaagaac ctcgagagcc cctgtgcttg cagcggcagc 360
ctcaagtatg ctcacaggga atgtgtgcaa cgttggtgca atgagaaagg agatataatc 420
tgtgaaatct 430

<210> 14492

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E5

<400> 14492

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aagaagcacc agtgccctgat cgatggcggc ccaggctctc ctctccggcc ggcagctgct 120
gggcccggcc gtgcagtcgg cegtctctag gtcgtcggcg aggaaggcgc ccttcgtcgt 180
cagggccagc tccagccctc cagccaagca aggtgccgac aggcagctgt ggttcgcgctc 240
caagcagtcc ctctcctacc tcgatggcac gctgcccggc gactatggct tcgaccgct 300
gggcctctcg gacccggagg gcaccggggg cttcatcgag cccaagtggc tggcctacgg 360
cgaggtgatc aacggccgct acgccatgct gggcgcggt 399

<210> 14493

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D10

<400> 14493

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tgattgaagg ggcatgcagt ctagttgatg ctcatactgt tgaagttagc cagcctgatg 120
gttcaaagca aaggtataca gcgaagcaca ttttgatcgc gactggtagc cgtgctcaac 180
gtgtcaacat acctggaaag gatctggcta ttacttctga tgaggccttg agcttggagg 240
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tctggagggg gatgggtgct gaagtagatc tgttttatcg aagagatctt cctctaagag 360
gttttgatga tgagatgaga gctattgttg caagc 395

<210> 14494

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-B4

<400> 14494

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ggcaagcttt tattgcacat aaattgcctc tacctgttat ggtcattagt ggaaaactgg 120
ctgtttagt tgcttcgtag actgaatatt taaaaagaag ctaagatatt agtcttcatt 180
ttttttccaa cgaagttacc catgtaggtt ggactgttgt tgctgctgga aatttcacgg 240
ttagatgatg actgagtac tgacgccatt tcagttctca ttgtaatatg tattatggcc 300
caattaagca tcaagttgaa acatgattga atcttatact cacatcttgt gttgtacctc 360
tattctggtc agtgggatgc tntctaattg acaactgaca ttcagc 406

<210> 14495
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B6

<400> 14495

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gagcatcaag gacgaggaag gttacccggc gttcgcgctg gtgaacaagg cgaccgggga 120
ggccatcaag cactcgctgg ggcagtecca cccgggtgcg ctggtgccct acaaccggga 180
cttctggac gagtcggtgc tgtggacgga gagccgagac gtcggcaacg gcttccgctg 240
cgtccgcatg gtcaacaaca ttacctcaa ctccgatgcc ctccacggcg acaagtggca 300
cggcggcgtc cgtgacggca ccaacgtcgt gctctggaag tggcgagagg gcgacaacca 360
gcgctggaag atccagccct actac 385

<210> 14496
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B7

<400> 14496

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ccccggagta cgaaaccaag gatactgata tcttggcagc attccgagta actcctcagc 180
tcgggggtcc gctgaagaa gcaggagctg cagtagctgc ggaatcttct actggtacat 240

ggacaactgt ttggactgat ggacttacca gtcttgatcg ttacaaagga cgatgctatc 300
 acatcgagcc cggttcctggg gaccagatc aatatatctg ttatgtagct tatccattag 360
 acctatttga agaaggttct gttactaaca tgtttacttt 400

<210> 14497

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B8

<400> 14497

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 caggtgggtt ccggtggaga tgacaacgat ctggagctga acgcggagtc ccacttcctg 180
 agcttcgtgc agcgggttcg caagtcctac aaggacgccg acgagcacgc gtaccggctg 240
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 gagcacggcg tactaagtt ctccgacctc acgccggcag agttccgccg gacctacctc 360
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<210> 14498

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C1

<400> 14498

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 gcacggcgtc aaggtcacct tcgtcaacac cgaggtaaac caccgtctca ttcttggtgc 180
 ctggcgacc ggagacaaag aactcggcgg ggtcgacatg gtgtccatac cggacggcct 240
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 gccagctggt tgatcgccga cgtgaacatg gcg 393

<210> 14499
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C11

<400> 14499

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 ccgaggggct cgtgcgagg aagctgatga ggctcctgtc gtcggtcccc ttcggctgcc 180
 gtgctggacc catcgacgac ggcgcgtcgt ccgtggacca cgccgccgcc gcgaggaggc 240
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 agcagtggcg cccctcgctc ggcgaca 327

<210> 14500
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C12

<400> 14500

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 tgctgctgga gactgggtgc ggctgagggg ggaggacaag aagcgctctc aggttggcat 180
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 gcgcctgaag gccagcattt caagcccaag gttcgaatgg cagcgaaagc ggggtggatt 360
 agcttctact ggccgaattt cacagataca tccgaacggg ttgctcgctg tgaaat 416

<210> 14501
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-C2

<400> 14501

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gcctccgtcg cagctttaac tcttcagaga gctaacagtg gggccaggca cagcaaagac 180
tatgtccaag caaggaaaag gaaggataag gctaacaatt ctgaacatgg ggagaaagaa 240
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gatgacgacg atgatatgct ttccgagatc gaaagcctcc tatcaggaga cattgacatc 360
cctataccaa gcgatcgctt cgacgttaat ggacggtcac ggtacaacaa cgcttacatg 420
gnctacga 428

<210> 14502

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C3

<400> 14502

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cccctcgccc gccgcgctt ctcttcgcc gtcgtctgct ccaagaagaa gatcaagacc 180
gacaagccct acgggattgg ggggtggcctg accgtcgacg tcgacgcaa cgggagaaag 240
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agcccaatct acaacgagga tgactggtct cccaccggcg acgtctacgt cgggtggaacc 360
actgagcttc tgatctgggc cgtcaccc 388

<210> 14503

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C6

<400> 14503

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gcac 425

<210> 14504
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-036-Q1-K1-C7
<400> 14504

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tcgtcgtccc cgccttcgcg gtcgtcaatg ccagcccaat tctcggttc tctgcgccg 180
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agtggggaat ccttttcttg ctgtttgaga tggggctgga gctctccctc tctgcctca 300
aggctcttgc gaggtacgcc tttgggatgg gcttgctca ggttcttttg tcaacccttg 360
ctttcacggc gttcgagctt tcttctaag at 392

<210> 14505
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-036-Q1-K1-C9
<400> 14505

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gaaggctctca tcaattacag agaaactatc ccaaatgtct gtgacctcta gaacacggag 120
cgctgtgaag cctgctgccc ccatgatgaa ggccggacat ggcaagtcgg actttcttgg 180

gaagtctgac gatatccctc cagcaaagag gctgacaaga aaattgggtca gctaaatgag 240
 ggtatgtgga gtgaaaattc gatcagctgc aagaggggtg ttgtgtatag tgtgcagaaa 300
 ccagtgtgcc cgaagaggat agtcagcctg agcgtttgcc catcgatggg tgtgcggatt 360
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 <211> 419
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 <213> Zea mays

 <223> unsure at all n locations
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 <400> 14506

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 ctgtggcaca cctgggatgc aattatcatg ctctgggcat gacaccatcc ttgatcatcc 180
 agttcttggc tcctgcagag tgacagcaat atattacagg catcgtgtca tgaatgtcat 240
 cccgccagag gactcatcgt cacactgcc aacttcagaag cttgttaaaa gaaatcaatc 300
 aactgatgtg tacacacctg tagcacatcc tgtctcagta gttgtaggat gctcaagaga 360
 agcaacaaac caagatgata ttgcangccc aagctcttng ccgagcctca ttaacaatg 419

<210> 14507
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-B3

 <400> 14507

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 ttgggtcttt ccccccttc ctttcatat tgccctttgt tagaaattga atgtaaaagg 180
 attagaatgt tgttttattc gttgcaagag taagggtaaa taaggaggca ggatggcctg 240
 ccgggtcccg aatctgaagc tgctaatttg taagcctata gtttgattt gcacattcta 300

tttgttatac tttatatgta tccatgaata gaaaattacg cctcgaaatt ccaaatttgt 360
aataaatccg agagaccac 379

<210> 14508
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-H9

<400> 14508

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gaagcagatg aacgccatta tcaactttgg cggatagaaa atggagtcgc agaaggttca 120
actgagatcc caaaagggtga agcaatcccc ctggagtaca atcttgctgg cttgaacgcc 180
atttcgttcg agaagggctg ctacatcggg caggagctta tcgcgcggac gcaccatcgc 240
ggtgtcatcc ggaagcgctt aatgccaatg aagttcgtcg acgggaatgg gcaagaactc 300
gagcatgccg tcgtccagg ctccgaggtc gtggacgagg cttcaggcaa gaaggtccga 360
gcagtgagca ccgctctggg c 381

<210> 14509
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A1

<400> 14509

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cgtgccgtcc actctctccc gagccagtct attgcgttcg ctgctcgaca tggcgctcca 120
cgcggcgacg tacttgctcc gctctgccct ctccacgcgc aaggaggggt cagcgaagga 180
ctcggcgctg ttcttgggtg ttccgctaac ggcggatgga ctcaaactgg acaccaccga 240
tctgggccta cgcaccttga gggtgagcca tgctgcagac atccgcgcgc agacggcagc 300
tgtgtactgc ccgatagtga cccccgcgtc gacgtctggc aaga 344

<210> 14510
<211> 401
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A11

<400> 14510

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ctgttcgtgg agcagggcac gacgatggac cggcacatgg gcccgcgctt cgagatcccc 120

gcggcgagcc tgggcgcgtt cgtgacgctg accatgctgg tggccgtggt ggtgtacgac 180

cggtgtttcg tgagggccgt ccggcggtac accaaggacc cgcgcgggat caggatcctg 240

aggcggtatg gcacgggcat gctgctgcag gtggcgacca tggcggtggc gtcggcgatc 300

gagagccgga tgctggccta cgcgcgagc cagggcctgg acgccactgt gggccagctg 360

aggctcacca tcttcgcgct gcttccgcag ttcgtgctga t 401

<210> 14511

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-A4

<400> 14511

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acgtgcatgg cgaggtttgc gctcgtggcg tgcgcgctg ccacggcggc gctgctgctc 120

ggcgtggcgg cagcggacgt ggcgtcgatc atcacgcagg acgtgtacaa ccagatgctg 180

cccaaccgcg acaacacgca gtgccccgcc aacggcttct acacctacga cgccttcac 240

cagggcgtca acttcttccc ggggttcggc accggctcca gcaccgacga actcaacaag 300

cgcgagctcg ccgccttctt cggccagacc tcccacgaga ctaccggtgg cagcacaggt 360

gccgtcgacc agttccagtg gggttactgc ttncaggagg agatcaaca 409

<210> 14512

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A5

<400> 14512

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 caaacggteg ctgccatgag tgctcctcct cctcctcgct gtcttcacc acggtctgctc 120
 gtcggcgagg gccacagac ggcgcggcga catggagggg agcatgagca ccgacgacag 180
 ctcgatgata gagcggttcc agcgggtggaa ggcggcgtag aacaagtcct acgccacggt 240
 cgccgaggag cggcggcggt tccgggtgta cgcgcgcaac atggcgtaga tcgaggccac 300
 caacgccgag gccgaggcgg cgggggtcac gtacgagctc ggcgagacgg cctacaccga 360

<210> 14513
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 14513

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 agcccgcgcc gtggtcagaa ggaggtcctt caccgtgcgc gcctctctcc gcaaggccac 120
 cggcaccgcc gccgtggcaa tggctgccag cgccctgctt gccggcggtg ccatggccca 180
 ggaggtgctg ctgggcgcag gcgacggcgg gctcgtcttc gagcccagcc agttcacctg 240
 caaggccggc gacaccatca cattcaagaa caacgccggc tttccgcaca acgtcgtctt 300
 cgacgaagac gaggtgccga gcggcgtaga cgccaccaag atctcgang atgagtacct 360
 caacgcgcca ggcgagacct actccgtcac cctcacctg ccgggaacct acggcttcta 420
 ctgcgagcc 429

<210> 14514
 <211> 409
 <212> DNA
 <213> Zea mays
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 <400> 14514

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atcaagatgt ttgttctaga tgaagctgat gaaatgcttt ctctgggttt caaggatcag 180
 atttacgaca tcttccagct tctcccagcc aagattcagg ttggagtctt ctctgctacc 240
 atgccccctg aggcccttga gattaccgcg aagtcatga acaagccagt gagaatcctc 300
 gtgaagagag atgagctgac tcttgagggt atcaagcagt tctatgtgaa tgtggataag 360
 gaagactgga agctggacac actgtgtgac ctgtacgaga cccttgcca 409

<210> 14515
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A8

<400> 14515

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 tgattttaac gaccagtcg accccgaaag ctagcttgga ccaagttttg taccattaa 180
 ttctaccgat gcatctctca gtttagactc ccataatcat acaaactgct agctttcatc 240
 tgcactgct tagtacatct aactatttgt accgcaagg gacgtttttg cagaactcct 300
 aattatatac catgcataat aaagtgggtgt caacaat 337

<210> 14516
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A9

<400> 14516

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 gatccccg cgagcctgg gcgcgttcgt gacgctgacc atgctggtgg ccgtggtggt 180
 gtacgaccgg gtgttcgtga gggccgtccg gcggtacacc aaggaccgc gcgggatcac 240
 gatcctgagg cggatgggca cgggcatgct gctgcagggt gcgaccatgg cgggtggcgctc 300
 ggcgatcgag agccggaggc tggcctacgc gcggagccac ggtctggacg ccacgggggg 360

ccagctga

368

<210> 14517
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B10

<400> 14517

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ctaaagcaag tggttgattt aaagctggtg ttaaggatta taaattgact tactacaccc 120
cggagtacga aaccaaggat actgatatct tggcagcatt ccgagtaact cctcagctcg 180
gggttccgcc tgaagaagca ggagctgcag tagctgcgga atcttctact ggtacatgga 240
caactgtttg gactgatgga cttaccagtc ttgatcgta caaaggacga tgctatcaca 300
tcgagcccg tcttggggac ccagatcaat atatctgta thtagcttat ccattagacc 360
tatttgaaga gggttctgtt actaacatgt ttacttccat tgtgggtaac gtat 414

<210> 14518
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B11

<400> 14518

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ctggccgcct acgacgtcgt cttcctggcg gcgctcgtgg gcatggccgc cgaggagaag 180
gcgcgcgtcg tcgagcacct agggaggcac atggcgcccc gcgcgcgct ggtggtgcgg 240
agcgcgcacg gcgcgcgcgg cttcctgtac cccgtggttg acccgagga gatccgcgc 300
ggcggcttcc acgtgctcgc cgtgcaccac ccgtgagggg aggtgatcaa ctccgtcatc 360
atcgcgcgca tgccactgcc ggtcgtcgac gagcacgcc g 401

<210> 14519
<211> 402
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-B2

<400> 14519

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gcagcggtcg ccatgaccga cggggtcgag gagagcacca gcagcaggtg gccagagctg 120

gccgacctgc gcggtctggc gcggtacgag gcgggtcggt cgggagggga gacggcggtg 180

tggcggtggc gggagcggtg ggatcaccgc caggtccacg gcaagcggc caaggtcatg 240

cacctgtgct tctggggacc caaatgaggt gaagtgaagc gctgtgtgtg cagcacagca 300

cctgcctctg cctgtgtggc cgggtcggtg gtctctgttt ncttctcgt cgtgtgtgtg 360

caggtgtgtg acttgtacat gtaccactgg tagactagta ct 402

<210> 14520

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F6

<400> 14520

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ccaagattct gggcaccag ctcaacttcg cgggtctctc cgtgtacgac accgcagcgc 120

ccaccggtgg ggtcagaag attgtctccc ttttcagcaa gaagcctgcc cagaagccca 180

agcccgctgc ggtatctgtg tcttctccag acatcagcga cgagctcgcc aagtgggtatg 240

gtctgtacag gaggatctac ctggtgtgtg gggtgtgtga cgtgtcggag gtggtgtgtg 300

acctcaccgg agaggtcctt ggagactatg gctacgacct ttttggcctg ggcaagaagc 360

cagaggtatt cgccaagtac caggtctacg agtgtatcca tgc 403

<210> 14521

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F7

<400> 14521

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 ttctgactta tatcaccttt ctgagtcaag cttgcatatc taccctctga atattgtcat 120
 caagacctgt ggcactcccg acctcctgct caccattcca agaatccttc agcttgctga 180
 agacctgtct atgccacttg ctgatgtgaa gtacttctgc gggacgctca tgttttatgt 240
 cacacacca ttcccctaca agtacttctg tgacgaagtc gctgtactta accgctacta 300
 tagctgcttg aaataccgtg atcatgctga tatcaactga gattcagcca tacttggacc 360
 gatatggtac gtcttctac 379

<210> 14522
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-035-Q1-K1-F9
 <400> 14522

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 ctaccaacag ttctctcctg ttacttttta aaccaataac tttttcaagt ttgtgcagat 180
 gcacacatcc ttgagccaaa atagaaaaaa aatcatagaa gagttctttg gctgtcacgt 240
 gattcaagag tattaatgat atacaaaagt ttgctttatg gcaagtcagg taaccacaaa 300
 ttttgggcaa tgacagggat gtgcagtggg ggtctcttaa aagaattttg tgttccagcg 360
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<210> 14523
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-G10
 <400> 14523

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tcgtgtccat cgctgctcta cccattctta cttgaatctt ttctgaagag gaaatctgac 120
 ttccgggagcg gctcctccgc gttgcctgga tcgcccggga tcagtatttt gcttccagtc 180
 agagggtccaa aatatcaaag ggatgcagaa agatgtgggt gcatgatgga gtaccttgcc 240
 tggaaattgg caggatacac atacataatt gtactttact tgatctcgat gacattggag 300
 tgcaaataata tgcacaacga ttgcctcatg cacacacaca taatggggcc gcgagttgta 360
 gctcaaccat catctctggt ttctntctag gtggagatgg ttaaaattgc tggtcact 418

<210> 14524
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G11

<400> 14524

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 cgttaaactt tatgcaagtg ctgctaccgc aaccattttc ccacaatgct cacaagctcc 120
 tatagcttcc tttcttcccc catacctctc accagctgtg tcttactat gtgaaaaccc 180
 aattcttcaa ccctacaaga tccaacatgc aatcgcagca tgcattctac ctttatcacc 240
 cttgttctc caacaaccgt cagccctatt acagcactta cctttcgtgc attttttggc 300
 acaaaacatc aatgcacaac aactacaaca actttttcta tgaaaccttg ctacctactc 360
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<210> 14525
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G2

<400> 14525

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 gggggcagcc gtccttgctg ccaagcgtgc ggaagcaatg gcccggaag ccaactgctgt 180

atggaatcgg caccctgttg gtcatgccac tgaggacact gtatggagtg ggtcgtgttt 240
 ttggcgcagg acggtttctc tgcaacatga ccaacgtctc ttcgtcgctg caaattgagc 300
 ttgtaccatg ccttcgagat aactatgcgt atatcctgca tgatgttgat actggaacag 360
 ttggagtagt ggatccttct gaggctatgc ctattataaa tgcattggaa aagag 415

<210> 14526
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G5

<400> 14526

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 catgcgcaag accgtgggca agcccaaggt ggcggcgtcc ggcagcccct ggtacggccc 180
 cgaccgcgtc aagtacctcg gcccttctc cggcgagccc ccgagctacc tcaccggcga 240
 gttccccggc gactacggct gggacaccgc cgggctgtcc gccgaccccg agaccttcgc 300
 caagaaccgc gagctggagg tgatccactc ccgctgggcc atgctcggcg cgctcggctg 360
 cgtcttcccc gagctgctct cccgcaacgg cgtc 394

<210> 14527
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G6

<400> 14527

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 acgtcggcga tgggtgcaaaa gggacgactg cgaaccacgg ctcggcagtc gtgccgccgc 180
 acgttcttgt cgcgcggcgg aggaggctgg tgcgcggccg gacggcggcc tactccatgt 240
 gcgctggcaa ggggaggacg ctcaaagggc gagacctccg cgacgtccgg aacctcgtcc 300
 tcaagatgac aggttctatc gaggagtga tgaatgcgtg ccgtcgcacg gcatggatcc 360

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407

<210> 14528

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G7

<400> 14528

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caatctcgta caccatgtgt tacacacata ccatatctaa tttcactgct ctatactcac 120

caactataaa cacaacaatc acccacacat tattcgctcc ataacatatt aaacacccca 180

tccttactat ctttatcacc ctctatctat cca 213

<210> 14529

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G8

<400> 14529

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gggttctggg cctcgcttct gagcttcctc aagttcctcc cctacttctg cggcctcctc 180

gtccttggac tcatcaaagg tgttttggtg tgcccttggg catgtctgat tatggcgatt 240

ggaatatctg ccctgggtcct gggcttatgg cctatgcac tgatttggac atactactgc 300

attgtcagaa ccaagctggt tggacctgtg gtaaagcttc tgcttcttat tgctgcgact 360

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<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-035-Q1-K1-H1

<400> 14530

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gagcgangaa ctggccgagt tctaggtaga gaatcggttt tgcttgctc agcacggggg 120

ctgctgcgtc tgggtgggtg gaaggggaga aattcgtgag atctgttccg gatcaggcgt 180

gcgagctcgg gaatcagggg tttcacacat agcttcgtcg atttgaattt gatgtactaa 240

tggagtctaa ggggtggcaa aagtctagca gtagtcgttc catgatgtat gaagctcccc 300

ttggctacag cattgaggac gttcgacctg ccggaggcgt gaagaagttc cagtctgctg 360

cttactccaa ctgcgcgaag aagccatcct gatatccctt tgg 403

<210> 14531

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-H3

<400> 14531

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ctgactccac ccacccaccc gccgcgtgcc tccgccggat ctcgtcggac tcggatccgc 180

ccgaccacga ccaccccgcg tcgtcgccgc gcagcagcag cagatcagag aagatggccg 240

gactcgacac ctctctcttc acctcggagt ccgtgaacga gggacaccct gacaagctct 300

gcgaccaggt ctcagatgct gttctggacg cttgccttgc tgaggaccct gacagcaagg 360

ttgcttgcca gacctgcacc aagaccaaca tggatcatgt ctttggtgag atcaccac 418

<210> 14532

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-H4

<400> 14532

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accgccggag cgaaggctcc acctccaact ccaaccagcc gtccctcgcc ggcgaggggg 180
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gcgccatccg cgtgcccgaag cgcaagatgc cgctgcccgt cgagagccac aggaagaact 300
cagtagaaat ggagttcttc acagagtacg gagaggcaag ccagtaccag atccaagaag 360
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<210> 14533
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F5

<400> 14533
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ttcttttagca gggccggctg gagcgccac tctccctcc agcccgggcc cagccgcgcc 120
gccgcgccgg tcgtagaccc aacgcccgc gccagccca gcgcgccctc cggccgtgag 180
gcggagagga tcgggcgggc ctggggcgga gcgccacgcg tagacggcgg ttgaggagcc 240
tgagaaaaca acggtcctcc ttcaagatcc tgatccctac gcgcaggcgt aggagattgt 300
attccgtctg attaatcggc ggagagcaag cgggtgttgc ggctgcgcga gcatggcggg 360
cgaggaggct gcggagggca gcggaaccag gaggcacatg gatct 405

<210> 14534
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-D9

<400> 14534
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gagttggccc cttatccta ttaggctttg gctgatgctt aacctctcaa ctctcctgat 120
cttgctcgtg gtctcccaa acaggtttgg tttctagatc cattacatgg agtgtgtagt 180
gtttttcctc ttttttgcaa tctcatgat gtgccaccag gtctggtcta atcgttcccc 240

taaaattgtg gcctataatc agcttcttgg cctatgatcc ttttgtatgt aggcaaagcc 300
aacgaatgaa agggactcac tcgcagcaac aaccaanaag ctgatcacgc attctccttt 360
tcacatttgt tgcatttaat taattcatcc aatagcatan attggcactc cttttgtgtt 420
attgctctt 429

<210> 14535
<211> 284
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-035-Q1-K1-E12
<400> 14535

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ttaaccatta ctatctaaaa catatggaca ggtatacaaa gcaacatagc taaggcacac 120
taatacatat aacaccaacc ctcatctcag cttcctctcc tagacctctg acaaccattc 180
cctctacaat ctctcgttac ccatcgacgc gtatatagaa atcacgatca tactagcaac 240
aacaacacga acgtacagcg tatcttgggt cctgacattc acca 284

<210> 14536
<211> 413
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 14536

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cgaggatgtc ttgcaactgc ggatcaagct gcggtcgcgg ctcaagctgc aagtgcggca 120
agaagtaccc tgacctggag gagacgagca ccgccgcgca ggccaccgtc gtcctcggcg 180
tggccccgga gaagaaggcc ggcgccgagt tcgtcgaggc cgcgggcggag tccggcgagg 240
ccgccacgg ctgcagctgc ggtggcaact gcaagtgcga cccctgcaac tgctgatcac 300
atcgatcgac gaccatggat atgattatta tctatctagc ttgtggtggt ggttgaacaa 360
taataagcga agccgagctg gctgccatac ataggtatng ngtggtgtgt gtg 413

<210> 14537
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-E4

 <400> 14537

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 cactcctcac ggtgcccttg ctctatctcc tccctgctcc tctgccccat ttcgagctgc 120
 tcccatggcg ccggttgccg gatctccctg gccgtgtgcc cctgcgctcg gtcgcctctc 180
 ctgcagctcg ctctctctc cctccatctc tctcaagcgc tagccgccgt ggttccctcc 240
 cctgggctct gctcgccgga gttcctgct cggccacgcc catgcccac gcctagccga 300
 gcggcctcac tgcacgttcc tcctttctcc aagttgagct ccctctccct gcgcgcggta 360
 ctctctccgg cgtccagttt tctccgcgcc gaagttccct ccatgt 406

<210> 14538
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-E5

 <400> 14538

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 cagccccggg tctgctcgt ctggtggtgg tgaaggggag aaattcgtga gatctgttcc 180
 ggatcaggcg tgcgagctcg ggaatcatgg gtttcacaca tagcttcgtc gatttgaatt 240
 tgatgtacta atggagtcta aggggtggcaa aaagtctagc agtagtcgtt ctatgatgta 300
 tgaagctccc cttggctaca gcattgagga cgttcgacct gccggaagcg tgaagaagtt 360
 ccagtctgct gcttacttca actgcgctaa gaagccat 398

<210> 14539
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-E6

<400> 14539

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ctcgccccag gacaacgaaa acggaaagaa gagaaccaa ggaaacagag caagagcatc 120

gctctcgaag caaaacgcgc accacgccgt cgccggccgg ccacttcgca cgtacgtagg 180

acgcgcacgc accggtgcat atatggggct cctgaaccag ctgtgggacg acacggtggc 240

cgggccgcgc ccggactccg gcttcggcaa gctccgcaag tacgcctcct tctccccctc 300

gtcgtcgtcg tcggcgggcg tggcggcggc ggcgggcgcg ggctccgcgc cgacttcggg 360

cgccgtgacg cggagcttga ccatgctgcg gcggccggcg gcgctgtccg tcgtcacgtc 420

gcccc 425

<210> 14540

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-E7

<400> 14540

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ttcaagatgc agatctttgt gaaaaccctg actggcaaga ctatcaccct cgagggtggag 120

togtctgaca ccattgacaa cgттаaggcc aagatccatg acaaggaggg catcccccca 180

gaccagcatc ggctcatcta tgctggcaaa cagcttgagg acgggcgcac gcttgctgac 240

tacaacatcc acaaggagag caccctccac cttgtgctcc gtctcaaggg aggcattgcag 300

atctttgtga aaaccctgac cggcaagact atcaccctcg aggtggagtc ctctgacacc 360

attgacaacg tcaaagccaa gatccaggac aa 392

<210> 14541

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-E8

<400> 14541

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cccacccctcc gctttctctc cgccactcat cctctccacc gaccgctccg ccggcggtc 120
 ccgtccgttc gatgtccctt cgccgccgcc gccgccggcc ccggtgtccg ggcccccct 180
 gagctcgtcg actccatcct ctccaaggtg aagggaactg accgaggagt gctgctgcc 240
 aaagatgggc accaggaagt ggctgaggtc gcgctgcagc tggggaagta ttgcatagac 300
 gaccccgta agtccccgtt tatattcgga gaatgggagg ttgtgtactg ctccgtgcc 360
 acctcgccgg gcgggtctta ccggacgccc ctt 393

<210> 14542
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F10

<400> 14542
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 cagcaccatg gccgtctctt ccacagcctt cgccggcaag gcagtgaacg tgccgtcgtc 120
 tctcttcggc gagggccgcg tgacgatgcg caagacggcg gcgaaggcaa agccggcggc 180
 gagctccggc agcccggtgt acggccccga ccgctgtctc tacctgggccc cgtgtccgg 240
 cgccccccg agctacctga cgggcgagtt cccgggcgac tacggctggg acaccgcg 300
 gctgtcggcg gacccggaga cgttcgcca gaaccgggag ctggagggtca tccactccc 360
 ctgggccatg ctgggcgctg tgggctgctg gttcccggag ct 402

<210> 14543
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F11

<400> 14543
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 accaccgacg ccacggcgct cccaggaat gggcagcact cgtcgtactg cttcctcggc 120
 ggcatgacgc tgctgagaca ggccgaggcg gcccgccgt accacgtcgt gcgcgccacg 180
 gcagaccga acaggccgat ctgcttcccc ggcagcacc tttcggcggtg gatcgactgc 240

aggctgaccg ggcacttcga gctctatccc tgtggcactg gatctgaccc ggagagcctg 300
 ccgacgatac gtgcacgcgg agctggtgca ctgtcagtta ccgatgctca tctcggcgagg 360
 catgttcata cccgagttcc tgaccaagat cg 392

<210> 14544
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-035-Q1-K1-F3
 <400> 14544

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 aaacagaccc aggtccccag gtgtttcggg tgtttatggg ggtcatgcat tccaatttag 180
 gtccttctgt tctagttgca catatttagt tctgatgttt atgatcacta cagaggcaag 240
 tttttccttt taattcacta ttcccaccta tacaacttgg tggttgatta agagttgtat 300
 tctcatgtac atagtctctg attcatgata cttattttat agttgggccc aaaaattaaa 360
 gatctatatt ctctaaagtg tgca 384

<210> 14545
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-D8

<400> 14545
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 cgttccccaa tcagacttgt tcggcctctt cgacggcggtg cccgtctccc cgagctcatt 120
 cgccatgcct tcctcagcct ccgcgagagg aggacgaggg ctctctcttc cggcgggtgc 180
 tgaggcggtt gtggtgctaa tattgggtgc agtggcgcca gcggcggtt gttatccgcg 240
 cgtgttcagc ttccggggact cgctggccga cacggggaac taccggttcg tctacggcaa 300
 cgactctggg tctggcgggg ccgcgctccg gccaccctac ggcgagacct tcttccaccg 360

cgccaccggg cgcgcctnca atggg'gcgcct cgtgggtcgac ttcacgcgga aca 413

<210> 14546
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C10

<400> 14546

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tgccacataa ggacgctgag ttcagtaccc acccgatgaa cttgctgaac gaaaggaccc 120
tgaaggggac cttctttggc aactataagc cacgcactga tctgccaaat gtggtggagc 180
tgtacatgaa aaaggagctg gaggtggaga agttcatcac gcacagcgtc ccgttcgccg 240
agatcaacaa ggcgttcgac ctgatggcca agggggaggg catccgctgc atcatccgca 300
tggaagaacta gatttcgctg tctagtttgt gatctggcct gggcttgggg ttaataaaaag 360
aggcaatgct agcctgccct ttcgatgagg aagtacatac acgctggcga tggaccgcgc 420
ttgtgtgtcg cgttcagttt ggctttt 447

<210> 14547
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C11

<400> 14547

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tccaggacgt acgtacgtac gtagatcgat ccatcgatcg ctagctagct gacgaccatg 120
gcgtccctct cctctgccgc catcacgcc ccttcttca cggccgcgcc cgctcgcgca 180
gtggtcagca ggaggtcctt caccgtgcgt gcctctctcc gcaaggccac tgccaccgcc 240
gccgtggccg ttgccgccag cgtcctgctt gccgggggcg gcgccatggc ccaggaagtg 300
ctgctgggcg caggcgacgg cgggctcgtc ttcgagccca gccagttcac cgtcaaggcc 360
ggcgacacca tcaccttcaa gaacaacgcc ggctttccgc acaacgtcgt gttcgacgaa 420

<210> 14548

<211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-C2

 <400> 14548

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 tcgtgaccgt gacgcaggaa gctataagct agccaagaca ggaataataa tggcggcgctc 120
 gacggtggcg agcctctctg tcccggtgac gacgacgacc ttcgcggcgg cgggcggcgg 180
 cgacgtgctg atcgtcgtcc cgaggagggc gggcgccaag cgcgtcgtct gggtccccgc 240
 ggcggcgcgc cgcggcgggc ggcggttggt cgccgtgcgg tccagcgggc cggccacgcc 300
 gccggagatc tccgacaagg tgtcggagag catcaagcag gcggaggaga cgtgcgcgga 360
 cgaccagaag ggcgacgccg agtgcgcggc ggcgtggga 399

<210> 14549
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-C3

 <400> 14549

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 agagagagat agaaagtggg tgctagtgtg atggtcgtcc ggtgggcgcg atgaccatgg 120
 agcacggcga ggattgctgc gtcaagggtg cgggtccacgc gcgccccctc atcggcgacg 180
 agaagctgca gggctgtaag gactgcgtcg ccgtcgtgcc gggcaagccg cagggttcaga 240
 tcggcagcca ctcttcacc ttcgaccatg tctacggcag cacaagcacg ccgtcggcgg 300
 ccatgttcga cgagtgcgtg gcgccgctgg tcga 334

<210> 14550
 <211> 166
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-C4

 <400> 14550

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 atatagaaag tgggtgctta ttatattgtc gatctgtggt ctcaattacc atttatcact 120
 tctaggattg cttcttcaac tttactgtcc acactctctc cctcat 166

<210> 14551
 <211> 140
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C6

<400> 14551

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 gttaccatca ctcatgaagc tgtaaaactag ccaacacacg aataataatg acggcgctcaa 120
 cagtggcgag cctctctgtc 140

<210> 14552
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C8

<400> 14552

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 tatatatact cgctgtatta gcagtagagg cggccgtgca gcgatcggtc gacgatgggt 180
 gttgccgcca tgagagacga gggagaggag ggacgacgac gggcgggtggt ggcgatacgg 240
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<210> 14553
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-C9

<400> 14553

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gctgcgggag agacgaccgg ccgccggcga cgccgccatg accaagcaaa aggcagtgat 180

caggcttggc gtaacgaacg accagaaccg gtctaaggcc atgcagctgg cgtcccgatt 240

tcacggagtg accttggtgt cgatcaccgg cgcaggcaag gaccagctgg aggtggtagg 300

agaagacatc gacatccctt gcctcgtcaa ttcgctgcgc aagaaggtct gccgctccgc 360

cggcatcgtc gtgggtggagg aagtcaagga caaggcgaag gtggaagang agaagaagaa 420

g 421

<210> 14554

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D1

<400> 14554

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tcattgagagc cacatttcct gtttctaattg ctcgagtgaA ggctacagaa aggtttgaag 120

cagcctaccc aatgatcaag gagttggctc ttgccggctc tcctggctca aaaactgtga 180

aacaagcatc acaacagctt ttacctttgt gtgcaaaagc aatgcaagaa aacaacgcag 240

agctcaccag ggaggctgtt gatgttttca tttgggtgctt aactcaaaat gcagagtcgt 300

acaagcagtg ggaaagaatc tatcttgaaa atattgaagc cagtgttgct gtccctgagca 360

aagttgtgat tgattggagg ggtgtgtctt ctaagctc 398

<210> 14555

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D11

<400> 14555

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cccgtcgtcg caactcgctt gcagggcggt cggcgtcgac gccggcgccg ccaggatcac 180
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gctcgccacc tcggcgctcc tcgtctcggg cgcgagcgcg gagggcacgc ccaagaggct 300
gacctacgac gagatccaga gcaaaacgta catggagggtg aagggcacgg gcacggcgaa 360
ccagtgcccg accatcgacg gcggcgtgga gtcgttcccc ttcaaggccg gcaag 415

<210> 14556
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D3

<400> 14556

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acgatgggac aggagcaact caccaagtcc aagaaggcat agaagccac tatctccaag 120
gagacacaga agacagagaa gtcggagcac tacaagttca ttagagaata acccatccag 180
tccaagtcac gcatcagaga aaataaattc atctgtaaaa caaaggctgg aagaagaaaa 240
gaaaaggcgt caaaaggaag ctgaatttaa gttactggaa gaggagcttg ctagaagggt 300
cgaagaagct ataaggaaaa atgtcgagga acgtctgaaa tctgaagagg tgaaacgtga 360
catagaacac cgaattgagg aaggtattag aaagttatgt gatg 404

<210> 14557
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D4

<400> 14557

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gccccgccgc gccagcttcc gccgaacccc gcttaggacc tccttccttc gcggcagcgt 180
gtcacttaaa gttgtgcaag tacggcagtc aaatgtcaac agatttaagt gcaatagcat 240

acgaagtaac ctcttttgata ggctaacaag ggttgtcagg tcctacgcaa atgcagttct 300
aagttcgttt gaagaccctg agaagattct agaccaggca gttctggaga tgaatgatga 360
cttgacaaaag atgcggcagg ccactgcaca ggtcttggca tctcaaaagc ggcttgagaa 420
taaataataaa gctgcagaac aagcgtt 447

<210> 14558
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D5

<400> 14558

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agcccgcgcg caaggccgcg gcgcggtcgg cgccgtccac cagcagcggc agcgtctcgc 180
tgcgcgctcg gacggggcag gccgccaaga aggctgcgct gtccgtgtcc gcgtcgctcca 240
cgctggcggg cgcttctctc gcggcgctgg cgctcgctgcc cgacgctgcg ctggcgggacg 300
tgggcggggc agacgccggc tgcgacagac gcagccagct gctgctcgtg gtgggtggcgc 360
ccgacatc 368

<210> 14559
<211> 272
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-D7

<400> 14559

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ttttacataa ncaacttatc aaatccaata atgcatacaa gccactatc tacaangaga 120
cacacaacac acataaatcg gagcactacc agttcattag acaataaccc atccagtcca 180
aatcactcat caaagaaaat aaattcatct ttaaaacaaa tgctggaaga agaaaaaaaa 240
aagcctcaaa aagaaactga atttaagtta ct 272

<210> 14560
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-C1

<400> 14560

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 ttaatgaaat tgaaattatt aactaacaga gcaaacacaa ataaagaaac aactttgctg 120
 accatgatag atttttatct agttggaaga gtcctcttaa tattcatcta gtcttatata 180
 agtttgggta tatagaaata caaacagaaa agagaggata gaggataggc tcattacata 240
 aaaaaaagat atggaaatag ccataatata taacanaaaa gaaaaaaagg agcgggagag 300
 ccaaatgaat cgaaagattc atgtttgggt cggaagaga tcataaaaat tgtaaaactta 360
 atagcaagat aatctacttt cattaaaaga tt 392

<210> 14561
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-A4

<400> 14561

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 gccgcatcac catgcgcaag accgtgggca agccccaagg ggcgggcgctc cggcagcccc 180
 tggtagggcc ccgaccggt caagtacctc ggccccctct ccggcgagcc cccgagctac 240
 ctaccggga agttccccgg cgactacggc tgggacaccg ccgggctgtc cgccgacccc 300
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<210> 14562
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-A5

<400> 14562

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aatacatatg gatcgggtgga tctggcatgg atctcaggag caaagcaagg accctctccg 180

gcccggtgac cgatcccagc aagctgcca agtggaacta cgacggctcc agcacgggcc 240

aggcccccg cgaggacagc gaggtcatcc tgtaccgcga ggccatcttc aaagacccat 300

tcaggagggg caacaacatc cttgtgatgt gcgattgcta ccccc 346

<210> 14563

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-035-Q1-K1-A7

<400> 14563

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gaccccagcc gagctcgccc ccggaccctt gcttcccatg gcaactcgccc tcttctccct 180

gacacgcgcc ctcccagccg agcagctcgc cctcgctccc tcaaactcgc cgcgcgcgcc 240

ctgctccctg cgcgccgcgg ctctcctagct cctctccagc gtctatcaca gtccgagcct 300

nctncagcc ggccggacct tcacctcgcc catggcggct tcccccgctc agcgtactcc 360

ctcgctggtg gtcgggcagc agtcgcagct gcaaccgagt ggagaaac 408

<210> 14564

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A8

<400> 14564

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tcacccttca cattaaccat ctctattcca aattttcaga tctacacaga atttagaaca 120

attccatcca cgtaaaacat ctctgatctt gttacaccaa atgctcgtac tttctcacct 180
 catacatcca ctacaaatac aactgatata acctcggaca tttcagctat acatatacat 240
 tataaccacta cccctagatc gacattatcc acttcaacaa gcatatgctg ctctcacttt 300
 gatttgtctt accc 314

<210> 14565
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-B1

<400> 14565

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 acaaataagag gacgcactga ctgagctaca ccggtaaaag ctgccaagga tatatatccc 180
 accagtcagg aatgcccgcg accagacatt tcagtacata acaggagctg aacaactaac 240
 gtacaggctg acagcagcag atgtatcatc agcaacagct ccacacccat aaccagcacc 300
 tgtcctcgtc aaggccgggc ttacctnctg agaagcagtt cctnctgcac ggagc 355

<210> 14566
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B10

<400> 14566

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 tttctgcaag tgctgctacc ggcaccattt tcccgaatg ctcaacagct cctatagctt 180
 cccttcttcc cccgtacctc tcaccagcgg tgtcttcggg atgtgaaaac ccaattcttc 240
 aaccctatag gatccaacag gcaatcgcag ctggcatctt acctttatca cccttggtcc 300
 tccaacaatc atcagcccta ttacagcagt tacctttggt gcatttattg gcacaaaaca 360
 tcagggcaca acaactacaa caacttgtgc tagcaaacct tgctgcctac tctcagcaac 420

agcagtttct tccattcaac caactagctg cattgaactc tgctgc

466

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<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B11

<400> 14567

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ccggtcatct gcggcctctc gcggtgcaac cggagggaca tcgacgccgc gtgggaggcc 180

gtgcgccacg cgcgccggcc ccggatccac accttcatcg ccaccagcga cattcacatg 240

cagcataagc tcaggaagac gcccgaccag gtggtcgcca ttgccaggga gatggtggcc 300

tacgcccga gcctcggatg cactgacgtc gagttcagcc ccgaggacgc cggcagggtca 360

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<210> 14568

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B2

<400> 14568

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agtgaatctg agagtattga ttacactct tggacaagaa atggtggccc tcttatgagg 120

acagcctcag ccaataaatt catcagcttt gttcagaatc ttgagatcga cacagaattc 180

agaacaattc catcgaggga aaacctaaact gatcttgtga caccaaattgc tggtagcttg 240

gcagctcatg cagtgagtag agaagcaacc gataggagct tggacatttc agcttttagat 300

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gaaggtgact tgttgacgcc tgaaaagatt gaaaatggta ttttggtt 408

<210> 14569

<211> 369

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-B3

<400> 14569

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atcaccatgc gcaagaccgt gggcaagccc aaggtggcgg cgtccggcag cccctgggtac 180
ggccccgacc gcgtcaagta cctcggcccc ttctccggcg agccccgag ctacctcacc 240
ggcgagtcc ccggcgacta cggctgggac accgncgggc tgtccgncga cctcgagacc 300
ttcgccaaga accgcgagct ggaggtgatc cactcccgt gggccatgct cggcgcgctc 360
ggctgcgtc 369
  
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<210> 14570
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-035-Q1-K1-B4

<400> 14570

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acagctgcca tgtcatctac caccacatag acatcctcaa aggcttatgc ccgaagtcgt 180
tttcgccggt ctggctgggg tgcttctact ccaacgtcat tgcacggctt acgagataca 240
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cactgaaggt ggtgcaagga gctactgcgc tgacagcact gcactgatcg atcattatga 360
cgccgat 367
  
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<210> 14571
 <211> 250
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-035-Q1-K1-B5

<400> 14571

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cctcgtcctc gtccgatatc gcagcggaac aaggatcatgg gcttccaggt ggctgccgtg 120

gcaccgacgc cgtgcgcgcg ctctcctgc gacttatcgt cgcctcgcac cttcttgccg 180

gcggtccttg gaagccggcg gcgaatcccc cggcctcgcg agatcccggc aaccgtaaa 240

ctgggaaacc 250

<210> 14572

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B6

<400> 14572

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ctcaaaaagc cttcgtcttt ctaaatcgcc tttttcaaata cacctgaacg gttctatctt 120

ccatttcacc caccaacatt tcaaaattcc tttcacggtt gttaccggtg cccttt 176

<210> 14573

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B7

<400> 14573

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actatacgaa aaaagaagat cagttgatga ctgcagcctt cgactcccga ccgaagcgaa 120

gattgaatca agtaatggat gctctacatt ttgaatatcc tgattatgag cggttgaaca 180

agggcgccga agggcagaaa agaaagagaa ttgtcagtggt tgtgggcaga caggccgcta 240

gaacggtaaa agaagatgaa gaaaaactga cgaagaggaa actgagcctt gagccgacaa 300

cggttgctcc gaagaagaga aaagctgcag ctctaaagca aaaggcgact gatattgaag 360

aagaaaactcc tgcacacct tctgttgccg atgtggcaga aattctaa 408

<210> 14574

<211> 380
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-B8

 <400> 14574

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acggccgcct catctccgac ggcgggccgt ccgcgcagct cctctcggtg atccgcctct 180
cgggggtcctc gatggccgcg ggggcggcca acaaggccga ggagaagtgc gagcagtcct 240
acgggttctc cccctgcacc accaccgtgc tcggcaacct cttcctcgtg ctgacgtacg 300
gctacctcat gtacaaggcg gccacgtacc tgtcggcggn gagcgagctg ctgctcgaga 360
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<210> 14575
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-F8

 <400> 14575

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gccgcctcat gttgtttgcg gccgtgctcg ccaaccgcgg cacggaggcg tcgatccgac 180
cgggagccct tcgcaatgga caaagccttc ctctctccg gcaatgaggg catcgtcggc 240
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gagaacacgg tgtttggtca tggcttctag aagggtggtg tttgcattta aaaaggaaaa 420
aattggag
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<210> 14576
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-G3

<400> 14576

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cattttccaa caataacact ataatatatt tgaaacaaga aatttggtca tgggacatag 120
ttgtttgtcc taatgcagct agctcatttg ttttcctttg attcagctac aacatcagta 180
gccacattcg ttgttctggg agtcactgca ctctatcttt cactgaagaa aagatataat 240
gaagcaatac atctcanagt agaaatgttt ctcaaacaat atggcacatc aaaaccaca 300
aggtaacttt tctccgaagt taagaagata gctaggcggg tcaaggaaaa agtaagccaa 360
gggtgattcg gaactgttta caaagggcag ctaccaaattg gtgttccagt ggcgggtcaaa 420
atgc 424

<210> 14577
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-G6

<400> 14577

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agataagccc cgatgcattt acccctttcc ttgttgtttt aaactcttta tcacttgaga 180
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acaaaatggg ttggttttaa caaaagatga tgcttcatat gggatgggaa gttttcaaag 360
aaaagacttg atggtgaatc catcttggtc atgatgggtt caacatctaa aaatatgtac 420
ctatgtctg 429

<210> 14578
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-G7

<400> 14578

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gtcagggcca gctccagccc ttcagccaag caaggtgccg acaggcagct gtggttcgcg 240
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cttggcctct cggaccccgg aggcaccggg ggcttcatcg agcccaagtg gctggcctac 360
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<210> 14579

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-G8

<400> 14579

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cattacttta ttccaaact gtaacaacac taaacctat actacactat tcactacatc 120
catatatcac cctacctgat acgatgcaat taccocgaca aaaccttttt ccaacacata 180
tg 182

<210> 14580

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-H1

<400> 14580

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ctttacctct tcaaccgtcg ttgaactata ctgcaccaga attgggtcga agtggagatt 300
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 ctcgtagacc acttctggac tgccataaca atgttaaaat gtacatgaat gccttgacat 420
 atttaac 427

<210> 14581
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-H3
 <400> 14581

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 actcgagcgt ccgcacaagc gtccgccaca gaagcagaat gcggagaatg gaacgaccac 240
 caacgtttat gaaccacagg aattgactaa atacgtgtgc atcaacggac acaacgggct 300
 atccctgaac gatcttatgc caaaagga 328

<210> 14582
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-H5
 <400> 14582

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 ttcaccagcc tcagccaaga ggaagccgac ctgcgccctt gccgcgtcct ccaggagcag 360

gagcggggcgt acatgatgct gaccggcggc gagtacgcga tctcggacgc cgagagctac 420
gactacgac 429

<210> 14583
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A1

<400> 14583

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ctcactgtca cgacggggag ctcgttgctc cgtcacgcaa ggcagccgcc tagcggggcg 180
ccgacgtaac gtatactcat atcatatctc gccgtcccat agttcctcga atgacttgta 240
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<210> 14584
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A2

<400> 14584

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<210> 14585
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F7

<400> 14585

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caagtctatg cttttgacaa caactaacaa ccatatatat gttctggatg catatggagg 180
ggataagagg tgtggcttta gtttagagcc atctcccaat gtaacaaatg aagctgcttt 240
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catcaataca gtacaagagc attgaagtgg gcccctcgtc gagcgatgtt tgcaactgca 360
tcaactgccc taactttctg gattcccaac caatogaatt aggatcaggt gcatggagaa 420
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<210> 14586

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D1

<400> 14586

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aaccgtgatg cggctctctg ggcagaaccc caccgaggcg gagctgcagg acatgatcgc 240
cgaggtggac agcaacggca gcggcaccat cgacgagcag gagttcctgg gcctgatggc 300
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<210> 14587

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D2

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gaagcttctc catgggacac cgagcctcgt agacgaagca gaggggacca gagaaaccga 120
 ggagcaagaa gcagggagcc atggcggtcc ttctacccaa gtcacaaacg ccgtcctgca 180
 agttgcccc gagc 194

<210> 14588
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D4

<400> 14588

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 ctggtcctctg cactcgctg gcgttcggcc cttgcttccc atgggcggaa ctcccagcgc 360
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<210> 14589
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D7

<400> 14589

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 gcttaaggtc taagaagctt gacgatctgc agccaggaga gccgcttgcg aaaccggtgt 300
 cacctgctct gccgagcgca cggaagcgtg ctctacacg tgctgctagg ggcagaaagg 360
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<210> 14590
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D8

<400> 14590

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tcgtgcaagc cggaccgccc ggttccacgc gccgggcccgg gtactacttc gagatggccc 360
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tgaggc 426
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<210> 14591
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-E1

<400> 14591

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gagcgacgag gacgaggcca agaggtagca gcaggagatg atggagttag ggacggcgctc 180
gccggagtac gtgatcgtag cggccgtcgc gctgctcaac ctctgtgtgcc tggcagggat 240
ggcggcggca ctggatgtgt tcttcgtcca agtcgctctc tgcgggggtgc tgggtgctcct 300
caacgtcccg gtctatgaag ccatgttcgt caggaaggac aaggggagga tgccgttccc 360
gatcacgcta gcctncgttg gctttgtgac gctggccctc attgtgccat tcttttga 418
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<210> 14592
 <211> 369

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-E2

<400> 14592

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gatgacaatg taataataag tgggttttga cgcggaatc aggcagagga gaggaagagt 180
ttggtggtgg ggtggggatc atcatgaatg gaggcacaaa acgggaatca gtggggaagg 240
tctgaaaacc atgaaccaa aggggtttga tggcgagaa gaagaagccc ctttgggcga 300
agtgaccgca atcaaagcaa caacttgggg tcaagagatg gtggcagctg gggctcttgc 360
aggggaaat 369
  
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<210> 14593
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-E3

<400> 14593

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cgggatttcc acaattgaag aaaaaagcgt agggcgatatt gatcaaatta ttggaccctg 180
gctggatatc acttttcccc cgggcaagtt gccttatatt tataatgctt tgatagtcaa 240
gagtcgagac actgccgata agcaaattaa tgtgacttgt gaggtacaac aattattagg 300
aaataatcga gttagagctg tggctatgag tgctacagag gggttgatga gaggaatgga 360
agtgattgac acgggaactc ctctcagtg tccagtcggt ggagctactc tcggacgaat 420
ttta 424
  
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<210> 14594
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-E4

<400> 14594

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ccgcagcggg agttcgacta cttcgcgctc tccctccagt ggcccggcac catctgcgcc 180
tncacccgcc actgctgcgc caccaacggc tgctgccgct cggagcctct ccagacgttc 240
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acccaattcg agatggacaa gatattgcca ctggaagaag tgcttgacaa gtactggccg 360
tccctctact gtcctaaatc tggaaatgc ttcagcggca agggactctt ctgggctcac 420
gagtgggaga a 431

<210> 14595

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-E5

<400> 14595

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gcgtccgtca ccgcccgcc cccggtcgca gccctgcgcc cgtcgtcgtc gtcggccttc 120
cttggccact ctagecgect cggccgcaact gctaccgctg cggcgacgag gcgagacctc 180
aaggcggagg ccaagggcga gtggctcccg ggccttcctt ccccgcccta cctcgacggc 240
agcctgccgg gtgacaatgg cttcgacctg ttgggcctgg cggaggacct ggagaacctg 300
agggtgtacg tgcaagcgga gctggtgaac gggcggtggg cgatgctggg cgtggccggg 360
atgctgatcc cggaggtgct gaccaagggc cggctgatca acgcg 405

<210> 14596

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F2

<400> 14596

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 acacagttag ttctttacgg aagatttatg aggtgtttgg tttgatgaat cactctatcc 180
 aaaatgaagt ggtgcatcat ggggccattc ctcaaatttg gggggatgac ttcattccac 240
 ata 243

<210> 14597
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F5

<400> 14597

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 cgccgatgca gctgccgtcg ccgttcgcgg agctagtcaa gggttcctcc ggcctcgaga 180
 agatcgtgct tcgcggcgct cgcaactgct gtgccgagat ctatctttat ggaggtcaag 240
 taacatcatg gaagaatgac aatggggaag agttgctttt tctcagcagc aaggctattt 300
 tcaaacctcc aaaagctatt cgtgggtgta taccaatttg ctttccccc aa tttggaacac 360
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 c 421

<210> 14598
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-C8

<400> 14598

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 ccggccatca gtgtctcatt gggaaacgcc cggtgccgcc ggtgaacgcc gctgggaatg 180
 atctcgacat ggcagacctt gtttggggcc ggttgcggtc gtgatctang gttggtctgc 240

tctatggtga gtcgctagtg cctgctccac cgtgggtggg aactctactg cgtcgtcggg 300
 ccggcttaac accgtcagag ttgggcgcgc ccggcacgcg cagaggaagc gggggcgcgc 360
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<210> 14599
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-H8
 <400> 14599

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 caggctcccc tateccttcc tgttccttca aaaagactgg actggatctt ccagagttc 180
 ccgttcggag agccgcgcga tcttcttcga cgaggcttcg atctgctgct ctccgtcggc 240
 gtgttgggga cttgcacctt atccgaagat gtcttttcgg agcatgggtc gtgatataag 300
 ggaaaagttt gggaatatat cgaggcggaa ctttgagggtg agaattcacc acagagggaa 360
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 ggct 424

<210> 14600
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-A1
 <400> 14600

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 tgctcggcgt gggggcagcg gacgtggcgt cgatcatcac gcaggacgtg tacaaccaga 180
 tgctgccccaa ccgcgacaac acgcagtgcc ccgccaacgg cttctacacc tacgacgcct 240
 tcatccaggc cgtcaacttc ttcccggggg tgggcaccgg ctccagcacc gacgaactca 300

acaagcgcgga gctcgccgnc ttcttcggcc agacctccca cgagactacc ggtgggcacga 360
caggtg 366

<210> 14601
<211> 330
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-A2

<400> 14601

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ggttgttgtc ttgctgtctt gagaatcctg tagacagtgg ggctagaatt aaacaacttg 180
aacatctgat tgtacaagta acctcttgta attttctttt aacacaaaag gaatgatact 240
ctagagaaaag atattgntgt ccattcatgt ctgntatggt tccctttctt aacttataaa 300
attaccgtat tottaatttt ctgcaaaaagc 330

<210> 14602
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-A4

<400> 14602

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cttgaccca cttcagcttc aaatcttctt ggctcaacta ggacagtga gacgttgtct 180
gaagtcgaag cttttgctct gagggctgac gacttgaagt ttgttgccac acaatttagg 240
aggctccaca gcaaacaact tcagcatacc ttccggtttt actcacagca atggaagacc 300
tgggctgctt gcttcataca agcagcttgg cacagatact gtaagaagaa gctggaagag 360
gcttttatatg agaaggagaa gaggttacia gcagcaattt gtagtgatgg cactacttcg 420
c 421

<210> 14603
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-A7

<400> 14603

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atgcatgatg caagactatc caaagacgtt gcctccctca gcaaaagttg gattcacggt 180
gatggatata tggcttgctt acgctcctgt gaagaataat cccgaagacg cagctaaagt 240
tccaaagggc aacccttata atagtgcac atccggagag atggcaattt acagggcgaa 300
cagccttatt ttgagaaagg ctggtgctca gatagctgat cctgttgctt acaccttcaa 360
cggacaagag gtagaggttt ggccacgcgt aacctggagc ccacgggggg gtc 413

<210> 14604
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-A8

<400> 14604

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cttgaccca cttcagcttc aaatcttctt ggctcaacta ggacagtga gacgttgtct 180
gaagtcgaag cttttgctct gagggctgac gacttgaagt atgttgccac acaatttaag 240
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tgtgctgctt gctttatac 319

<210> 14605
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-B1

<400> 14605

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tggtgtcgct gaagctgcag aagcggctcg ccgcgagcgt cctcaagtgt gggaaaggca 120

aagtctggct tgaccccaat gaagtcagcg agatctccat ggctaactcc cgccagaaca 180

tccggaagtt ggttaaggat gggtttatca tcaggaagcc tcagaagggt cactctaggt 240

cccgtgcaag aagggcacat gaggccaagc agaagggaag gcactctgga tatggcaagc 300

gcaggggtac cagggaggct aggctcccca ccaagattct gtggatgagg aggatgcgtg 360

ttctgaggcg cctgctccgc 380

<210> 14606

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B3

<400> 14606

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gcggcggata tggcgtagcg gccgncgatg aaggcggcaa ggccggggttn aggctggcat 120

gatggatccg cacacaggat ccgcatcacg ctctcctcca agagcgtcaa gaacctcgag 180

aaagtctgcy gggatctggt gaaggcgcc aagggttaagg agctcaagggt caagggtccc 240

gtgcggatgc ctaccaagggt gctccacatc accaccagga agtctccctg tggagaagggt 300

accaacacct gggatcgctt tgagatgagg attcacaaga gggatgatga tctcgtcagt 360

acaccagacg ttgtcaagca gatcacctca atca 394

<210> 14607

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-B4

<400> 14607

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ccgcctccg ttccataatt caccagcgtc gtcctacca tatctcccat cgtcttctcc 120

ctcgcgccat cagcttcccc aagccagcgg cgaccatgat ctccccggac accatccgca 180
 cggccatcgg cgtcatcggc aatggaactg cactcgtgct cttcctctcc ccagtgccta 240
 cgttcatccg catctggaag aaagggtcgg tggagcagta ctcggcgatc ccgtacgtgg 300
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<210> 14608
 <211> 208
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-B6

<400> 14608

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 gggggagaag aagaaggac tggtgcccga gtggatgaac ttgacaacag aggacgcca 120
 gacggtgctg gccgcggtag ctatctcgtc cgctttccga accttcgctc cagagccgcg 180
 cttcatccnc tcgctctcca tggttccc 208

<210> 14609
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-C1

<400> 14609

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 accttgaaa gcttgcaagg tcgacagttt tgaaaaagtt caaggatggt gaattcagag 180
 ttctcgttac gaatgagctg tctgccagag gactggacgt gccagaatgt gaccttgtgg 240
 ttaatctgga ccttccaact gactccacac attatgctca cagagctgga agaactggac 300
 gtcttgggcg gaaagggatc gtggtcacia tatgcgaaga aagcgaggga tttgttgtaa 360
 gaaaaatgcg caagcagtta gatgtggcca tcaagccatg cgagttcac 409

<210> 14610

<211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-C3

 <400> 14610

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 agcagcctga tatcagcaag gaaccccatg atgagcacga acctgcagag gaatggcaag 180
 aacacctgca tcacgatttc tcgagactgg ctgcggatgc acctaagcgt gataagcttg 240
 cggctcatga actggatg 258

<210> 14611
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-C4

 <400> 14611

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 ctctccgcc ttgctccgc gccactacca ccgccgctg acccggaacc cgtecggtggg 180
 gccgtgccgg gccgccccgg tgggactggc cgtgcggtgc gagaagagcg acaagcagaa 240
 gaagcagccg ctgcccgcgc tcgggccccg cgagcagcgc ttcattgttc agggagacga 300
 gctctgcggc cccgacatat ggaatacaac ctggtatcct aaagctgcag atcatgtaac 360
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<210> 14612
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-H7

 <400> 14612

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cgggccgcct ggcgccgttc tgcgccaacg ccaccacctc tggccgcgtc accatgtccg 180
cggagtggat gcccgccag ccaagccctg cccacctcga cggctcctct cccggggact 240
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cagaggtgta ccactgccg tgggccatgc ttgccgtccc cgggatcctt gtgccggaag 360
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ccacgtacct gg 432

<210> 14613
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-032-Q1-K1-F4
<400> 14613

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gtgggcaagc ccaagggtgc ggcgtccggc agcccctggt acggccccga ccgcgtcaag 180
tacctcgcc ctttctccg cgagcccccg agctacctca ccggcgagtt ccccggcgac 240
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ctggaggtga tccactcccg ctgggccatg ctgggcgcgc tcggctgcgt cttccccgag 360
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atcttcagcg agggcgggct ggacta 446

<210> 14614
<211> 435
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-F5
<400> 14614

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caatctcagt tctagctttc attgttcttg tccctgttaa ttggaccaat gatactctgc 180
aattctcgaa gttagagcac agcaatgttg ataagctttc aatatcaaac ataccagttg 240
gatcaaaaag gtttatagcc cacttggcaa tggcgtatgt tttcacattt tggacctgct 300
atgtactatt acgtgagtat gaagtagttg caaagatgag actgcgattt ctttcatcag 360
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aatcaattag tgagc 435

<210> 14615
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-032-Q1-K1-F7
<400> 14615

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aataagtgag aagaagcttt cgactoctat tgaggctcta tgtaaatecc atcctgtgga 180
atttgcttcc tatttccact actgccattc tctgacattt gatcagcgtc ccgattatag 240
tttcttgagg catgtctttc gagaattggt tgagcgcgaa ggctatcaat ttgattatgt 300
gtagtactgg actttgctga agtgtaagca atcccagaag gctaaggttc agcaaggatg 360
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<210> 14616
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-032-Q1-K1-F8
<400> 14616

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gatcaagctg caagtgcggc aagaagtacc ctgacctgga ggagacgagc accgccgcgc 120

aggccaccgt cgtcctcggc gtggccacgg agaagaaggc cgcgcccagag ttcgtcgagg 180
 ccgctgcgga gtccggcgag gccgcccacg gctgcagctg cgggtggcaac tgcaagtgcg 240
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<210> 14617
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-G2
 <400> 14617

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 aagctgcggc tgccggctcaa gctgcaagtg cggcaagaag taccctgacc tggaggagac 120
 gagcaccgcc gcgcaggcca ccgtcgtcct cggcgtggcc ccggagaaga aggccgcgcc 180
 cgagttcgtc gaggccgcgg cggagtcggg cgaggcccgc cacggctgca gctgcggtgg 240
 caactgcaag tgcgaccctt gcaactgctg atcacatcga tcgacgacca tggatatgat 300
 tattatctat ctagcttggtg gtggtggttg aacaattata agcgaggccc aactggctgg 360
 catacatagg tatngngtgg tgtgtgtgag agagagag 398

<210> 14618
 <211> 124
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-G4
 <400> 14618

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 accaactaac accgacctac tggactacta tcaacaacat cttcaccoca aaaaacctcc 120
 cact 124

<210> 14619
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-G6

<400> 14619

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agataagaac gcctcaccgc agttcgtcga ggccgttgcg gagtcctgcg aggccgcca 180
cggctgcaac tgcagtggca actgcaagtg caaccctgc aactgctgat cacatcgatc 240
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cgaggccgaa ctggctgcca tacataggta ttg 333

<210> 14620

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-G8

<400> 14620

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ctactagcac atagagtttc gcccgaaatcg atcgccgact gactccgcta gggttcggcc 120
cgatcgccgc ttcgtcctcc cggctcccgc ggggaccccg ccgagatgtc tgactggagc 180
tcgcccggctg cgccgacgtt cttccctttt ggcccgcagg ccgaggggtg ggacgtcacc 240
ttcaagggtca aatatggtga tacacttaaa aggttttatg gttgtgcaa tgggagtcac 300
tttgacatga atttatctgc tctacgggcg aggattgata ctgcctttaa gtttggtcct 360
gacgttgact ntgttctgac ttacaccgat gaggatggtg atattgtcat gctagatgat 420
gatgatgact tgcgtga 437

<210> 14621

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-H2

<400> 14621

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 tcggccgtct ctaggtcgtc ggcgaggaag gcgcccttcg tcgtcagggc cagctccagc 180
 cctccagcca agcaaggtgc cgacaggcag ctgtggttcg cgtccaagca gtccctctcc 240
 tacctcgatg gcacgctgcc cggcgactat ggcttcgacc cgtggggcct ctccgacccg 300
 gagggcaccg ggggcttcat cgagcccaag tggctggcct atggcgaggt gatcaacggc 360
 cgctacgcca tgctggggcg ggtggggcgc atcgccccgg agatcttncg caagatgggc 420
 atcattcccc cgg 433

<210> 14622
 <211> 126
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-H3
 <400> 14622

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 cgttgccttt taatatcttt tttactgttt ctaatgataa tgagatacgc acgcgcgttt 120
 acctgt 126

<210> 14623
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-H4
 <400> 14623

gtcaaccaag tcgaagactt acacaaagaa tggagaatct tgtacgataa catatgggtc 60
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 taatcagaaa tttattgaga caactcgaga aaccagccct actttcatca ttgggaagtt 180
 tgatggaatt cttggtctcg gatttctga aatttctgta ggaggagccc ctccaatttg 240
 gcagagcatg aaacagcaga aactggctgc aaaggatgtc ttctctttct ggcttaatc 299

<210> 14624
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-H5

<400> 14624

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 ggcgcagcga cagagcagag gccatcttct ccgagatgat cgagcgaggc ttcgacaggt 180
 gcgtggttgc ctatggcaac atgatctcga tgtacggcaa gatcaggagg gcgtcggaag 240
 ccacgaggct gctggccctg atgaagcaga aggggtgcga gccaacgtg ctgggtgtaca 300
 actccctgct cgacatgcac ggcaagctgg ggaactcgaa gcaggccgag aagatctgga 360
 aggagatggt gcggcgcaag gtccggnccg accggatcag ctacacggnc atcatnctgg 420
 cgaaca 426

<210> 14625
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-H6

<400> 14625

gccatccaga tgtgtatgag ccatgtgatg attcctttgc ccttgttgat gcactagtct 60
 cagacaaggc acaactcttg acactacagc caaggttatg tatggaggta gggctctgga 120
 gtggttatgt catcacctgg ctggcaatca tgctcaggca gttaggcttt ggagcccagt 180
 acctagcaac tgacattaac caacatgct 209

<210> 14626
 <211> 258
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-F3

<400> 14626

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 tccggcctcg ccggcgctc cctggccagc cgcccggcgt tctccaccag cttcaocggg 120
 ggcagccggg tgcggcgag gaacccctg atgagcagga acctggagag gaatggcagg 180
 atcacctgca tgacgtttcc ccgggactgg ctgcngaggg acctgagcgt catcggttc 240
 gggctcatcg gctggatg 258

<210> 14627
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-C8

<400> 14627
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 cgatctctc cacggcgatg gccggcaccc ccatcaaggt gggctccttc ggcgagggcc 120
 gcatcaccat gcgcaagacc gtgggcaagc ccaaggtggc ggcgtccggc agccctggt 180
 acggccccga ccggtcaag tacctcggc cttctccgg cgagcccccg agctacctca 240
 ccggcgagtt ccccggcgac tacggctggg acaccgncgg gctgtccgnc gaccccgaga 300
 ctttcgcaa agaccgcgag ctggaggtga tccactcccg ctgggccatg ctcggcgcgc 360
 tcggctgcgt cttccccgag ctgctctccc gcaacggcgt caagtccggc gaggcgtct 420
 g 421

<210> 14628
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-D2

<400> 14628
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 tatgcgagct ttggaaagcg cgagctagtt tatccggccg ggcgtgggtca ccgaggcagt 120
 agcggcgaga gaggggagga tctgatcgat gtcgtcgggc gaggacgggt actgcagctc 180

ggattcgccg cgggcggaat ccccgacca gccgcaggca gctgcggacg cggagtcgcc 240
 tcgcgcggga gccgggccga acaagcgca ccttcacgcc tcgtcgccgg cagctaagcg 300
 cagccggaga tcggtggaga agcgggttgt gtcggtgccg ctggccgagt gcggtgaggg 360
 gccgncgncg tctgactcgt gggcgtggcg catgtatggg cagaagccca tcaagggctc 420
 cccctaccca cgtgggta 438

<210> 14629

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-D4

<400> 14629

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 tcttgacctt cctattctct ctgcctcgcc gcgcgtagaa gagaagaggc acttcttctc 120
 cctcgccggc ttccctctgc gtgtcgcaag tgcttaccct acaccgtggc ccgtggatcg 180
 tcgcccggacg ccaggcatcg gcaagcggca gcgcagccgt ccaccctgat tttgccaaga 240
 cagactaagg acttgccgcc gaccgaccag tctgccgagc agggcaacgg ttcgtgtttg 300
 cgctgccgcc ggcgaggcaa atggagccat catcatcgac gccgacgcac tgcccctgca 360
 cctgcagcat cttcacgctt gcagcgtttc ggccgcttaa gcgcagcgta tgtctttgca 420
 agaaagatga tgatg 435

<210> 14630

<211> 111

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-D5

<400> 14630

ctggaatgtg atcatatcac aaaggctcaa acgctgaatc aacatgtgct gctcttgctg 60
 gggccacaat ctgagaattc ggaagcaacc acgaatctac gccaatggag a 111

<210> 14631

<211> 416

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-D7

 <400> 14631

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 acctcaccgg agaggtccct ggagactatg gctacgaccc ttttggcctg tgcaagaagt 120
 cattggactt cgccaagtac caggcctacg agctgatcca tgccagatgg gccatgctcg 180
 gtgccgctgg cgctgtcatc ccagaggcct gcaacaagtt cggcgctaac tgtggccctg 240
 aggctgtctg gttcaagacc ggcgcgctgc tcttgacgg caacaccctc aactacttcg 300
 gcaacagcat ccccatcaac ctgggtgggg ccgtgatcgc ggaggtcatc ctcgctggcg 360
 gcgccgagta ctaccggatc accaacggac tggacctaga ggacaagctg ccccc 416

<210> 14632
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-D8

 <400> 14632

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 acaccgagaa caatttcagc cagaaactta atggattgga ttcatctgat gcacatgcat 120
 taaccagcag tgatatgaat gctcctagat ggaccagcac ttgtaaaatc gtcacctacg 180
 caaaccacag ctatcaaact ggaaaacaaa atcggctaca tgtgttgctc tcagatgatc 240
 tgcaatttgc tcatagagat cacgctgcaa gaacagagaa gccaaatttt gagaaagttg 300
 gcagtgggtgc aataccatca gcggatttgt gcatcaagga tgattttgat aaaaggtttc 360
 aagaagatct tgatgaagca gtgcgccaaa gccttggata cgatgcttat tctggctggg 420
 acaataagca cttca 435

<210> 14633
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-E1

<400> 14633

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ctcgcgtctt cttcgacatg accgctggcg gcgccccggc gggccggatc gtgatggagc 120
tgtacgcaa cgaggtgccc aagaccgcg agaacttccg cgcgctgtgc acgggcgaga 180
agggcggtgg caagtccggg aagccgctcc actacaaggc ctccaccttc caccgcgtca 240
tccccgagtt catgtgccag ggcggcgact tcacccgcg caacggcacc ggcggcgagt 300
ccatctacgg cgagaagttc cccgacgaga agttcgtgc caagcacacc gnccccgggtg 360
tgctctncat ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg 420
tcgc 424

<210> 14634

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-E2

<400> 14634

ggtggagaca ggatgccggc tggccacggc ctgcgctcgc ggacgcgcga cctcttcgcg 60
cgcccccttc gcaagaaggc ctacatcccg ctaccacct acctccgcac ctacaagatc 120
ggcgattacg tcgatgtcaa ggtgaacggc gccgtccaca aggggatgcc gcacaagtgc 180
taccacggcc gcaccggtcg cgtctggaac gtcaccaagc gcgccatcgg cgtcgaggtc 240
aacaagcagg tcaatgggcg catcatcagg aagcgtatcc atgtccgtgt ggagcatgtg 300
cagccgtccc gctgcacaga agagttccgc ctgaggaagg cgaagaatga ccagctgaag 360
gcggatgcca aaaagcgcg c 381

<210> 14635

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-E4

<400> 14635

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 gccgacgccg acgaccttc tgcgcccg cgcccatggc gtacggcgac cgcgtcacca 120
 ccttcgagga ctccgagaag gagagcgagt acggctatgt ccgcaaggtc tctggacctg 180
 tggttgtggc tgatggaatg ggtggtgctg ccatgtatga acttggtcgt gtcggacatg 240
 ataacctcat tggggaaatt atccgtcttg agggcgattc agctacaatc caagtttatg 300
 aggaaacagc tggactgatg gttaatgacc ctgtattgag aacaagaaag cctctttcag 360
 ttgaattggg acctggaatt cttggaaaca tttttgacgg tatccagcga cctctaaaaa 420
 ccatcgctat taagtcagga gat 443

<210> 14636
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-E5
 <400> 14636

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 catggccgaa agatgtcaaa atcacttggc aacgttggtg accctcttga ggtgataaat 120
 ggcattgtcac tggatggtct tctgaaacgt ttggaagaag gcaatctgga tccaaatgaa 180
 ttaaacattg caagagatgg gaagacgaag gattttcctg atggcatagc agaattgtgg 240
 accgatgcgc tccgcttcgc actgatatcg tacacctccc aggttcttat ggcacctcag 300
 tgagtttttt catgtttaat gtagcataca tggctttatg caatcccccc ctcttcagtc 360
 tgacaggata aatcttgata tcaagagggt gggttgatat agacaatggt gcaacaaatt 420
 atggaatgcc attcgttttg 440

<210> 14637
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-E6
 <400> 14637

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agccgcggag acgacgccgc caccgatgca gccgctacaa tgtcaacatg agcgattggt 120
 gggcaacatg tgcccttctc tctatctcgc cgtctacaga gggcggatgg cggaggtcac 180
 ggcgctgctt ctggaacaac ccgccgttgc aatagccact gccacgccgg gtattaaggg 240
 cactgctatt atgcacggac agtgcgacat acttgagttg acagccgaga ggaacaccgc 300
 tctacatgtg gctgcggagc aagggcgcca cgagctgac cgaggagctct acttcaggtt 360
 ctcagaccag ggcctnctca atcgccctgaa ctcggcgctg gacacgccgn tgcattccgc 420
 ggcgagggca aggca 435

<210> 14638
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-F1
 <400> 14638

gtcatctoca tctccagctc cagcgccgcc ttgctctgtg tgcttccgcc cgctctgtgt 60
 tgctattgct aaactagtgt gttctgtcgc tatgggctcc ctggccaccg cggacggggc 120
 gttgccgccc ctcaagtacc ctcaggctcg ccgggacgaa gacatcgctg acgactacca 180
 cggcgctcctc gtgccggacc cttacagatg gatggagcag gtggattcga aggaggtgaa 240
 ggagttcgtg gacgcgcagg cggccgtgac cagcgccgtg ctgtccagct gcgaccaccg 300
 cgggcgcctg cgcgggcagc tcaccgcgct cttcgaaccac ccgcgcttnc gcgcgccctt 360
 caaagcgccc ggcagctact tcta 384

<210> 14639
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-F2
 <400> 14639

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 tacaccacct cggcacaagc tgtaaggact ggatacaact cctacgaacc tgatgtaagg 120

ggtggataca actctcttcc catcaacatc ggtggcaacc actagctagg cggcgtatcg 180
 gacctgtct cataaatcga aataatataa gactgtcttc aactgatcac actgccggtg 240
 caacactcta aatttgaggg ctacagtgca cactctagcc tatcaacggc tcacgctacc 300
 acgcgctcta caccgatgtg cccctaacc agattctctc tcccccttga tctggggcac 360
 ctatttc 367

<210> 14640
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-C7
 <400> 14640

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 gacttatctt gagttaccag cgtcgcatgc ttctttgtca gtcgagtcta cacccttacc 120
 gacaaaatgc ttgagaagat tggaacacct gaggcacttg ccttgagagg gaaggctgcc 180
 gacgtacagg ccaaactagc aaatcggctc taccagaaga aattctctgg cccgaggtgg 240
 gaagcgtctg ccaagaaagg tgccaagaaa cagatgttgt tgcgggcggt caccctgtgc 300
 aagaaccag cttatccga cactctttac atcgacagtc ttattggacc tgacacggtc 360
 aacacgatt 369

<210> 14641
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-A6
 <400> 14641

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 gacgcggcaa ccaccgtgc actgcactgc acccctcgat gctccgagct cagcagcagc 120
 agcagcagcg actcgctcga ggcatgacgc catccatgtc aggaaagata tacctggtcg 180
 gccgaacgag ctactgtgct tatccgaagc actgacactc cagcggatgc gctgcctgac 240
 agccacttag gacgacagat tcagacgcgg gcgatcaaga tggcgcacga gcccatcctg 300

gactatgcgg actacttata ggcggttgcg gcagatgtcg ccacgacaat ggacgaccac 360
atcctagcgc cggagctcta tagcctgcat g 391

<210> 14642
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-A7

<400> 14642

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atctacaggc aaggggcaac tagctagcta gccgcgcgcc ggcccatga tgaacctgaa 120
cctgaagcag cctctggtgc tgcccgcgca ccacagcaat gtcgtcggct cgcgcctgtc 180
gtcgtcgtcg ccctcggcag ccgccgccag caggaggacc ggccggcgcg tgcctccccg 240
gtccggctcc cggcggcacg tcgggtgcc gaggatcagc tgcagcgcca ccgaggaggt 300
cagcggcgcc gtgtcgtccg tcaccgtgga gaggatgtc acggtgacgg cgtctgtgga 360
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<210> 14643
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-A8

<400> 14643

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cctcgtttcg cattccgttc gagcagggga gcggccgtga gaagggaagg gagggaatta 120
aggcaagatg ttcacgaga gcttcgcgt cgagagcccc cacgtgcggt acggccccgac 180
ggagatcgag tcggagtacc ggtacgacac gacggagctg gtgcacgagg ccaaggacgg 240
cgctccccgc tgggtcgtcc gcccgaagtc cgtcaagtac aacttccgga ccagcaccgn 300
cgtccccaag ctccgggtca tgcttgtggg gtggggaggg aacaacgggt ccacgtgac 360
ggctggggtc attgccaaca gggaggggat ctcatgggcg 400

<210> 14644
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-B1

 <400> 14644

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 aatcgcaactg ttggaagctc ttcgctgtca cccccaccca ccttcggcgc tcttttttag 120
 cattttcctt gggctctgga ctccaaaatc ccagcctttt gtttgcttct ctgtctcctg 180
 ctgattgggtg tccccgggtc caggactctt gatttgctcc tcgcgggggt tcggtccca 239

<210> 14645
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-B2

 <400> 14645

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 ccgtgcgtgg aagaagatgt cgtacctgct gccgcatctg cactcgggggt gggcgggtgga 120
 ccaggccatc ctgcgcgagg aggagcgcct cgatcatcatc cgcttcggcc atgactggga 180
 cgagacctgc atgcagatgg atgaagtgtt ggcagcagta gctgagacca taaagaactt 240
 tgcgggtcatc taccttgggtg acatcacaga ggtccctgat ttcaacacca tgtatgagct 300
 gtacgaccct tcgacagtga tgttcttctt ccggaacaag cacatcatga ttgatctcgg 360
 gactgggana cacaacaaga tcaactgggc cctgaaggac aagcaagagt tcatcgacat 420
 tgtggagacc gtatacaggg gc 442

<210> 14646
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-B3

 <400> 14646

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aagccaaagc tcctctgccg ctgtcactat gttgtcactg ctcacagctg tgtgctctgt 120
cttcctgtgt ttgcgatgat cacagccacc aaattcatca caccatagct agaacattct 180
atggagtgtc tggcccgat gaagcttggt tgcgaatcat ctcagaacgc gaagaagaag 240
tggaagtccc tgaagagaat acaacaccac ctttggagtc tcatgcaggg tctcgtcttt 300
actttaacat ctgcgggcct gagactaact catctataaa caaagggtgac gaagctacaa 360
attattgttg attttgctcc aagggtggtat caaaagaaga 400

<210> 14647
<211> 411
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-B4
<400> 14647

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ccgagtgtag atgatgttaa acgagtgcct aatggaactg caaacagctt cagtataatt 120
gatgcttacc caaggtactt tcgagttact ggatcaggtg aagtccggcg attagaagca 180
gcgatagatt cagtaagtgg cgaattgcta ttaaataatg gcactccttg gtggtcattc 240
tatgatacaa acccatcaga tttggcaggc tgtcaagggc tgaatgggtcc catggctata 300
agttgttctg aggagacacc tcanggcatt attggcgaaa cactcagtaa atttagcata 360
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<210> 14648
<211> 438
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-B5
<400> 14648

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ctgccactaa gttggcactg tccagagctg tgtgcgctgt cttcctgtgt ttgtgatgat 120

cacagccacc aaattcatca caccatagct agaacattct agggagttgc tggcccgtat 180
gaagcttggt tcgtaatcat ctcaaacgc gaagaagaag tggaagtccc tgaagagaag 240
acaacaccac ctttggagtc tcaggcaggg tctcgtctct actttaacat ctgcgggcct 300
gagactaact catctataaa caaagggtgag gaagcgacaa atttttgttg cttttgctcc 360
aagggtggtat caaaagaaga aaaacaagag tgaagatgcg ggaggacgtg gtcctncata 420
taggactttt tggtttaa 438

<210> 14649

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-B6

<400> 14649

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acattagctg aaggggaggt taagggtaga gatcgtttga tcagtatcat ctgtatatcc 120
ccatgcatgg ggtttcgttt tgtgcgctta cttctggctt gccagcgtat ggttcaatgt 180
ggaaacacat gtattagtac gagaactaat agacttataa ttaatataaa tcaagcacgt 240
acgacttcta gct 253

<210> 14650

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-B7

<400> 14650

accagctgcc attgccatct actgacctgt gacctccgca tttccaaaca gcccgagcga 60
gctagagcta gcagagcggc aggcacctcc ctctcaagg aacatggccc gcacgcagca 120
gttggcagta gtggcgaccg ccgtggtggc cttggtgctg ctggcggcgg cggcgacctc 180
ggaggcggcc atcagctgcg ggcaggtggc gtcggccatc gcgccctgca tctctacgc 240
gcgcggccag ggctcggggc cctccgccgg ctgctgcagc ggcgtcagga g 291

<210> 14651

<211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-B8

 <400> 14651

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 cgcccgcaac acgagggcat gttcccgggc cctacctcgc agccttcgcc cgacgtcgcc 120
 gttgcgagca gcggcgctcca gtcgagctgg gccggcgaca tctgctcgac cttctgcggc 180
 agcaaccagg tggccaggac gccggcaggg atcaggggga aggacgcggc attgcagccg 240
 gaggtgccga gccgtgccgg cgcgcacgga cgcacatcgt catcccgtag gtccggaagc 300
 aactatgggg gatccgggct gcccaatgac agcgtccatg gtccaagag gaagggga 358

<210> 14652
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-032-Q1-K1-C1

 <400> 14652

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 cgtcgcttac caggtgctgg gtgaaaggct caaaccgact atcgttgtcg cttaatgccg 120
 atcgagtcag cttaagtcgt ggtttgactc gctagggggg tgttgcgacc cgcgcaaacc 180
 ttgccgagac caacaggagc agggaagggg gcgcagcaag acacaacaag atgggatcca 240
 gagcaagaga gctgaccttg tcaagacaga actgctcgcg gagatggcgg ctgaggagac 300
 gcggcgccgg aggtgctcgc ggagatggcg ggctgaggag acgcggcgat ggaggtgctc 360
 gcggagatgg cggctganga gacgcgncg gagtgtcgt gga 403

<210> 14653
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-C2

 <400> 14653

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 gaatctgggg gataacataa gcctgatcga aatgtatttt ctgtcaatcg atcacgacgg 180
 ccgtggggttt ctggactttg agcagttccg ggcgatagtc aaaatgatta gatctaatac 240
 ggatgtcgca gacgtttggc gcaagctgtc tagcacggac ggtatcagca gacaggcccc 300
 gaatcacatt gccaaactttc gcgcaatggc tgcgtaatag tcagggttct cgcgctacag 360
 atgacgagat cctgcgaatg tttcacgagt tca 393

<210> 14654
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-C3
 <400> 14654

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 gcagcaacaa cacgaggtgg aggaggtgca agggaaggtc gtccaagaag aagtgcaggt 120
 cgttcaagag acggtggtgc cggcgccgctc ggaggaggac aaggaggccg aggcggcgct 180
 ggtgcacaag atctccagcc tggccgcccgc catcgccaag ctgccatccc tgagcccgtc 240
 gccggaggtg aacgcgctct tcaccgagct cgtgacggcg tgcaccccgc gcagcagcgt 300
 ggacgtggag cggctggggc cggagctgca ggagatgcgc ggcgggctga t 351

<210> 14655
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-032-Q1-K1-C4
 <400> 14655

cccacgccta cccaggcatc ctgtatcgcc tcacgcctat tactgcactc tcattgcaca 60
 atggcggggac aagggaact ctactacacg gacatgcacg gcacctcat cacaagagct 120
 tcttcggcga tggcccatc caccattcgc atgaccgtcg gcaaaccaca agtagcccca 180
 tgcggcaatc cctgatacga cctccaccgt gtcaagtacc atcgccactt atccagccag 240

ccccccaact accttaccga acagtttccc gacgactacg gctgcgacac ccacgggctg 300
cacgactacc cccatacc 318

<210> 14656
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-A4

<400> 14656

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ttgactggca agaccataac cctggaggtt gagagctccg acaccatcga caacgtgaag 120
gcaaagatcc aggacaaaga gggcatcccc ccagaccagc agcgtctgat cttecgctggc 180
aagcagctgg aggatggccg caccctagca gactacaaca tccagaagga gagcactctc 240
cacctgggtgc tccgcctccg tgggtggtcag taagccatgg ttcatttaag ctgctgctgt 300
acctgggtat ctgcgtcgtc tgggtgccctc tgggtgtacct ctatatggat gtcgtcgtct 360
aataaacatc tgtggtttgt gtgtcatgaa tcgtggttgt ggct 404

<210> 14657
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-G12

<400> 14657

gcggcgcggg cgggccgccc ggcgaggtgc gcgtacctgc cgtcgatcgt cgccgggatcc 60
atcgaccatg ggcggtggca acggccagaa gtccaagatg gcccgcgagc gcaacttgga 120
gaagaacaag ggggccaagg ggagccagct cgagaccaac aagaaggcca tgagcatcca 180
gtgcaaagtg tgcattgaaa cattcatgtg taccacgact gaagtgaagt gccgggagca 240
cgccgaggct aagcatccca agacagacgt gtaccagtgt ttccccatc tgaagaagtg 300
aaaggcctga acttagcaac cagcgtgtgt ttggctacta cgatcgggcc agggggcggt 360
ccttgtgttg aggggtgttca ttccgtggta ttttcccgtc agtcatgcg 409

<210> 14658
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-G3

 <400> 14658

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 atcggatatc ttgctgggaa caaaactctg gtgctccctg tacctgcctc taatgtgatt 120
 aatggatggt cacatgctgg aaacaag 147

<210> 14659
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-G5

 <400> 14659

 gagaagcgaa accgaccttt cccctcccc cgtattccac ctgcgggaga tccagtccag 60
 ccctgggggtt tcgccagcgg cgagccaaac tccacgagcg ggggaagagg ggaaagcagg 120
 gacgacgagg gggcagccat ggggcagcag tcgctgatct acgcgttcgt ggcccgtggc 180
 acggtcatac tggccgagta cacggagttc accggcaact tcaccaccat cgactcccag 240
 tgcctcatga agctaccgc aagcaacaac aggttcacct acaactgcga cggtcacact 300
 t 301

<210> 14660
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-G7

 <400> 14660

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 tcggccgggc gggctgagcc aatggcacgg gcccttgggg cgcgaacgcc ctaacgtggg 120
 tcgngcggg cggcgagcag aggcgccgtg tgctagcttg gattctgact tannaggcgt 180

cagtcataat ccggcacacg gaagcttcgg gccaatggct tttcaaccaa gcccgatgac 240
 caattggggg aatcaacggt tcctttggaa ctaggtggaa tt 282

<210> 14661
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-030-Q1-K1-G9
 <400> 14661

aatttgtatg aaattgagtc aaacaaaccg gtgaggcaga agataacaga gccaaagaca 60
 ccatatcacc caatgataga tgatgatgga tcattgtcgc caacacgtcc tttcgacaaa 120
 tgtcttgatg agactgtcca ggctgaagct atcttaacag ccttaaattgg tgtggcttct 180
 tcaagcatta gcatttcaaa ggatgatggg tggggatcgt cagatgatga tacagatgcc 240
 atagatcaag atgctgaccc tgaagctgac acgacaaggt tgagtttcaa ggagcatcgc 300
 cgtgcccact acgatgaggt ccgcaagggt aaggagctga tgaggactgg atcccttact 360
 ggtg 364

<210> 14662
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-030-Q1-K1-H10
 <400> 14662

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 gatgcagccg gccaaagatcg gcggccgggg gccctttgcc tcgctgccgt accgcccgtc 120
 gtcgcaactc gcctgcaggg cgttacggcg tcgaggccga acaacctagt catcacaggc 180
 gttattcatg accctagcag ccagcgccaa gacggggtca tgctggacgc ctatgtgcta 240
 cccgcagagc ctgctcatga ccgtgcagag cgggatcagg tgatgccagt tcctaagaag 300
 ggctttgcgg gccatgatct t 321

<210> 14663
 <211> 463
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-H12

<400> 14663

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ctcgagcccg cggccacgc ccgcaggccg ggaccggtgg gcgcgcgccc ggcagtagga 120

gggagaggaa gggcggcatg gcggcgccgc cggcgagggc ccgggcccac tacgactacc 180

ttatcaagct tcttctcatt ggggatagcg gtgttggtgaa gagttgcctc ctgttgcggt 240

tctctgatgg ttccttcact acaagcttta ttaccacaat tggattgac tttaagatac 300

ggacaataga attggatggt aagcgtataa agctacagat ttgggataca tgcggccaag 360

aacgcttncg tactattacc actgcgtact accgtggagc tatgggtatc tggctggggt 420

atgatgtcac cgatgaaatc tctttcaaca acatcccgaa act 463

<210> 14664

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H3

<400> 14664

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ccttgcagag ctgccccatt gccagaagag caaagatcaa caccagggtcc aggggcagca 120

gcagtagcgt ggcgaagggg tcaccaccac cagccttcca gttccagtgc agggcgtcga 180

ctttcgcggc ggacaccagg cctccggctc gagct 215

<210> 14665

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H4

<400> 14665

gagctcgctc gtccgcgtac agctgagcta ctgcaatttc gcaacaagtt gcaagcaata 60

accgaccaag gacgacgaac gggtcgatgg ccacgtctc ctctgcagc cgcctgagta 120

gcggcaccgg cgccgcggcc atccaccggc agccggcccg tgctggagcc gtccctcgctg 180
tcacctgcag gcggagctcc tccgcgaccg tccgcgccga acccggtgca acggcgggcg 240
ccccggctgc cgtaaacttg aaaaccaggg ggtggctggt gccaaacttg ccgaagttca 300
agctggggcg gccccgtct tattggagaa caacaaccgg ctcccgccct tggcgggcca' 360
agggcttaac ctggtctaac acccggccgc taacaaaaat ggcccgaacc aaggtgtccg 420
gctt 424

<210> 14666
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H6

<400> 14666

cgcccgccgt ctccggcacc cgataggcct tctccccaca cccctcgctg ggcttccgtg 60
gcccgtagcc cggcgcgctt cccttcaaag ccaactgctt gcctcctcct tctacttaag 120
cgcagccggc cccggccggc actcgcatcc ggtagctcga tcacttcttc ctctggattt 180
tggaaggag gcatcggacg tcggatgcat gacacactca ttgcattagc gcctacgcct 240

<210> 14667
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H8

<400> 14667

gcccgcggag ccatgctcgg cgcgctcggc tgtgtcttcc ccgagctgct ctccc 55

<210> 14668
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-A1

<400> 14668

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cctgacggcg atcctcggct ctctagccag gcagcaggag atggagcacg acgtgcacca 120
ccagcaccag caggccatgg agctgccgcc ggggttccga ttccaccca cgcacgagga 180
gctcatcacg cactacctcg ccaggaaggc cgccgacgcc cgcttcgccc cgcgcgccgt 240
cggcgaggcc gacctcaaca agtgcgagcc atgggacctg ccatcccggg cgacgatggg 300
cgagaaggag tggctacttct tctgctcaa ggaccgcaag taccgacgg ggctgaggac 360
gaaccgggcc accgagtccg gatactggaa ggcgacgggc aaggacagg agatct 416

<210> 14669
<211> 381
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-A2
<400> 14669

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agttacaagc ctgttgctct aattgatcac cacataccat tttatgaaaa gattgcattc 120
tatgctgcgt ctgattgctg tattgtaaat gctgtgaggg atggcatgaa cttagtagca 180
tatgagtata ctgtttgccg acagggaaat gaggagattg ataaactcag aggtcttggc 240
aaagacaccc atcacacaag cacacttatt gtttcggagt ttgtgggttg ctccccatct 300
cttagtggtg ctttcagggt aaatcctttg agtgtcgatg atgtggcnga tgccttgtgc 360
cgtgcaactg atttgactga a 381

<210> 14670
<211> 401
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-G11
<400> 14670

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gcctctagtt ctctctttcc tccagagtga tggccaaatg ctactcagat tggccccga 120
ttccgccttt ccatccatcg cgaagaacgc cgccgcaatc ccacgcctcc ccgatcacga 180

tcaggcggca gctcgcgtcc ttcgtgctcc actgctccag atcctgcgct cccctcctcg 240
agcccaagaa cctgcccgat gagttcgagg cgtaccggc gacgacgacg ccgncgctgc 300
cggacgcgcg cccgaagctg gggatttcta acaagttcat ccgaggcctc tgcggtgacc 360
cgcagaccga gcagctggcc ttcgagggct acaggaaggc g 401

<210> 14671
<211> 345
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-032-Q1-K1-A3
<400> 14671

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ggcaggtgga cgacaagccg ccgtacgccg ccgtggacga caccatgacc accaccacga 120
agaagatggt ggaggagcag ctctcagacg acgccggcgg cggcggcgag ctgccagagc 180
agaactaccg tggatggaag gccatgccct acgtcatagg gaacgagacg tgcgagaagc 240
tgggcacccat cggcaccacg gccaacctgc tgggtgtacct caccaccgtg tacggcatgt 300
cgggcgccag cgccgncacc ctgctcagcc tctgggtcggg caccg 345

<210> 14672
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-E2
<400> 14672

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tccggccggc gncgncgncg cgtccccgcc ccacgatgag tgcttggtgc ctaccatcgc 120
gcaatccgtc cttaggaact cccgacacgt gctcgacgct ggatcgccgn cttgccgacc 180
cggtcggcgt catcaaggaa gataagtgga cgttggcaag gccagttaat cttcttaacg 240
caaccaagga tgactacatg gccgaactat ccaatgcctg ggggtgccaa ttttaacagg 300
attgcaaccc gaatttgag aactggcta actaattcca agttatccgg catttggaat 360

tgaaggaatc ggcatttagg ccagccttat ttccagagat ccggttcaag ggtttccaac 420
aattt 425

<210> 14673
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E3

<400> 14673

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ggaatggcta caactcgtac gaaccttatt gaaaggggtg attccaattt tgttccattc 180
aacggcggtg ccagccctta cttagccgtt gaatcgaacc ctgtttaaaa attcgaatta 240
ttttagaact gctttaaacg gttcacattg cggttcccca accttaaatt tggg 294

<210> 14674
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E4

<400> 14674

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agaatgccct ggtcccacaa ggagcgagta atttgaggca gagaccgaca cagatggcag 120
cggttatggt gtctcgccaa ggccgggagc tgcagcggta cagcgcgagc acggccgggc 180
gcgtggtggt gggctgcgtc ccgtaccgcg tgcgcggggg cgacggcaag gtggaggtcc 240
tggtgatcag ctgcgagaag atgggccccg cgaagggcgt gctgatccca aaggacggtt 300
ggaagctgaa cgagtcctat gccaaaggcg ccaggtgcaa ggccccctag gcggcctgct 360
ttctccggtt gac 373

<210> 14675
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E5

<400> 14675

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agagcgagag cggaagatgt gcgcgcgggg gaaccgatcc gactgatgg 109

<210> 14676

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-E6

<400> 14676

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catgaagatg aaatcggcta acaaagcggg gctcaggaag cagttcatga ggatatggga 120
gaggctgcac gtcacggagc tcggggtggc agccttctc ttctctctcg gctggtacga 180
tcttgcgtag gggagggacc atntcttcat ctaacctctc ttccagtctg tcgcgttttt 240
catcgctggc gtcggctacg tcggcaccat cgtcccgcag tcgtagcgga agcgtgtcca 300
gatcatccgc ttctctctgg ttttcgcatt gtgtcttggg taagtctcgt agtggatgac 360
cggtttgagg taaagatcat gcatg 385

<210> 14677

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E7

<400> 14677

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agcgaggaac ccagtccagt cccgggaatg gagtgcgat tgggcgtggt tggccgcgac 120
ttcgtgctgg tggcggccga caccttcgcc gtgcagagta ttctcgcca caagaccgac 180
gaggacaaag tgatggtgct cgactcgcaa aagc 214

<210> 14678

<211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-E8

 <400> 14678

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 cgggcgctgc tggcgcgcg accgtggccg gcgccaagg gggcgcgcg gccggcgca 180
 aggggcaaag gaatgggtcc ccggttccaa acttcggcgg cttgttcagg ggaaccaggt 240
 ccaccaggtc caaggggacc aacttcaatt ggttccc 277

<210> 14679
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F1

 <400> 14679

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 cggggcgggc ggcgagcaaa agcggcggtt gctagcttgg attcttactt aaaagccgtc 180
 aatcataatc cggcacaccg taacttcgcg ccaatggctt ttcaaccaag cgcgatgacc 240
 aattgtgtga atcaaccggt ccttttgtac taaggatgaat tacta 285

<210> 14680
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F10

 <400> 14680

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 aacgtaatga gctacaccat tgtcatccaa tgcctcggga aggcgcatag gatacagcaa 120
 gcggtggagg tgcttgagtc cgggctggag aagggtctca agcccagca tcggctctgt 180

gggtgcttgc tctctgtcat cgctctgagc agcgtcgagg agatggaaat ggtgctttcc 240
tacttgaaa aggtcaacca gaacctgggc aagctgatca gagcgctcgg cgacgccccat 300
gtcgactgtg acgatatcac aa 322

<210> 14681
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-F11

<400> 14681

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cgcgctccacc acgcccgtcg cgtcggcggc ggcgctgctt ctgctgctgc tcgcccgtct 120
cgccgcggcg gcggacagca tgcgatcgt ctcctacggc gagcggagcg aggaggaggc 180
gcggcgggatg tacgccgagt ggatggcggc gcacggccgg acctacaacg ccgtcggcga 240
ggaggagcgc aggttcgagg tgttcaggga caacctccgc tacgtcgacg cccacaacgc 300
cgccgccgac gcgggcgtcc actccttcgg nctcgggctc 340

<210> 14682
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-F12

<400> 14682

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ggcagagatg caccgggtaca ccacgacact cgcgtcagcc aatgcgctgc taatgcatat 120
actacagaag ctgccacgg cgtcctacag catgtagatc acatcctact gaaagcggat 180
caacgaggat acgcaccga tctacaccga gaacatagca gcacacggcc ggacctacaa 240
ctcacagctg ccatcagtaa cacatgtacc agaatgccag ggacaaccta cgatacatct 300
acgcccacaa caaaaactcc gaca 324

<210> 14683

<211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F2

 <400> 14683

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 taccaaacct cgaccgcttc ttaaagaaaa ccagatcaac aaaaaccaag aaaactaact 180
 tcaattgatt ccccttaaag aacaacaaaa cattcaaac cttgttcccg agcttaaaga 240
 ccaagttaat aaaaacaacc ccgttcaaaa acaaacacct gcccgacaac acaaccggtt 300
 caaaggctct ttcctccttg gcccaattgca acggca 336

<210> 14684
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-F3

 <400> 14684

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 tcgggcgngc gggctgagcc aatggcacgg gcccttgggg cgcgaaacgcc ctaacgtggg 120
 tcggggcggg cggcgagcaa aagccccggg tggtagcttg gattctgact taaaagcctt 180
 caatcataat ccggcacaac ggaactttgg gccaatggct tttcaaccaa gcgccatgac 240
 caattgggtg aattaaccgg tccttttggg ctaaggtgga ttactattgc ggcgccgtca 300
 ttaatagggt gaaactt 317

<210> 14685
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F4

 <400> 14685

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cgcgcccgct gccgcacccg gcgccccacc acctacactg cgcggtcccc ctcaggcacc 120
 acgccacctc cgcgctccgcc gtaaccgcgc cgtcgccccaa gcctgacgtt caggctcctt 180
 caatcgggccc cctgaacccc ggccttgggc ggccaaggcc aacccggtcg gccccggccg 240
 gcggggcgctt cttcaagcgg gccggcacccg gataccccgg aacgcttgcc caccctgcc 300
 ttcggtccgg caccctcgc cgggccgagc gccaaagcgc cgcgcttc 348

<210> 14686

<211> 217

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-F5

<400> 14686

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 gacggcggcg catcagccac tgcggcggca gcgcccgcg ccgggaggcg gccgttcacc 120
 agcctcagcc aagaggaagc cgacctcgcc ctttgcccgc gtccctncagg agcaggagcg 180
 ggcgtacatg atgctgaccg gccgggagta cgcgatc 217

<210> 14687

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-F7

<400> 14687

ctcgccatca cataaaacca gtgcaagcag aatcagcgca atggcgagca gcaccatggc 60
 cctgtgctcc acagccttcg ccggcaaggc agtgaacgtg ccgtcgtctc tcttcggcga 120
 ggcccgcgtg acgatgcgca agacggcggc aaaggcaaag ccggcggcga gctccggcag 180
 cccgtggtac ggccccgacc gcgtgctcta cctgggcccc ctgtccggcg cggccccgag 240
 ctacctgacg ggcgagttcc cgggcgacta cggctgggat accgcggggc tgtcggcgga 300
 cccggagacg ttcgccaaga accgggagct 330

<210> 14688

<211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-E12

 <400> 14688

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 actgatgaca gtgaattccg acaccaaggg cctgcaagca atgcagctta tgacagaaaa 120
 ccgggttaga cacataccgg tgatcgacag gacagggata ctctggatag ggtccatcgg 180
 cgacgtcgtg cgcgcggtgg tgggcgagca cagggaggag ctgaaccggc ttaatgacta 240
 cattcagggg gggttc 256

<210> 14689
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-F9

 <400> 14689

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 gccgcccgcg cgctcgtcgc acggccgaac tggtcctccc tctcgccgcc gccactggcg 180
 ccgtctattc agattcagaa tcgtctttat togatctcgt cattcccact aaaggctgga 240
 cctgtaaggg catgcagagc tttagcaagc aactacacgc aaacatctga aacagttgat 300
 ttggactggg agaacctggg ttttgggatt gtgcaaactg attatatgta tattgctaag 360
 tgccgggacag acgggaattt ttctgagggg gaaatgggtgc cttttggacc tatagcgctg 420
 agtccatctt ctggagtcct aaattatgga cagg 454

<210> 14690
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-G10

 <400> 14690

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gatactcagg agaggaacaa gctcactggg aacggatatc cccagtgaac gtgagataaa 120
ccgcttggct gctcgaaacg atgaagaatt ccggttgttt gagaagatgg atgaagaaag 180
gaggctaagg gagaactaca aatctagact tatggatgga aatgaggtcc caaattgggt 240
gtttgccaat gataatgaaa ccttacgcaa gaaaaccgtg gcagatgaat tccggaatat 300
aattgttggg tcaaagagac gtagaaagga gggtgtctat tcggactctn ttggtgatca 360
gtggatgaaa tccgacgagg gatttgaaga gattgcaaag atgactccaa gggatgaagc 420
aactgcttat tcg 433

<210> 14691
<211> 134
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B6

<400> 14691

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ccgggcaggc tgagccaatg gcacggggccc ttgtggcgcg aacgccctaa cgtgggtcgg 120
agcgggcagc gage 134

<210> 14692
<211> 109
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-030-Q1-K1-B7

<400> 14692

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cgggcagccc tagccaatgg cacggggccct aggggcgcga acgccctaa 109

<210> 14693
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C10

<400> 14693

ggaattcatc gccagcgacg tctccgaccg tcgactcccc aaggacatcc tcctgcgcgt 60
cggggactac gctagcgcct ctcacgaccg cgcaactaaa ctacatgata tcacactgca 120
agatgaccat tacgctggta cagacctggc ccacctgccg caacggtagt cctgccgatc 180
ggttcacgct aagcatgacc atgtgcctcg actacgtaca ctgggatctc acgtacaatg 240
cactgactac catgatggca ccagac 266

<210> 14694

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-C3

<400> 14694

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catcgtcttg acgtctcgtg accgctggac tcgccgncgc cccaggctag ctcgatgatt 120
gggtgcgcca agccgctcgc ggccgctg caggcatggg ctccgccgcc gtctcccgcc 180
ggtcgccgnc tccccccctc gttctgcgcc cctgacaccc tcccagctct caccggggcc 240
ggtcaaagcc caagccaggt ctaatctgac caccgcccgc caacaagctc cggatgaaggc 300
cgcttggtcc tt 312

<210> 14695

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C4

<400> 14695

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atgggggtcgg gccggtgctt ctccagatgc ctgctcagga tgctcaactt catcctaacc 120
gtcgccggcc tcgctatggt tggttacggg atctacctgc tcgtccagtg gattaagata 180
tcccaggacc gcatcggctg ggcttcgacc gtggaagtgc tcgacttttg ccggccgctg 240

ttgggggc

248

<210> 14696
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C5

<400> 14696

ggcagaggca agaggccct caccctcagg tgatcaggtc gctagctccc ggcttaacta 60
gtaggcagcc atgaatttcg gtgggaatgg caacgcgacg atccggtgca agtactgcag 120
ggcgagcctg agcgtgatcc cggcgagcg cgccatccag tgcgcgcaat gcaactgcgt 180
g 181

<210> 14697
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C8

<400> 14697

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agcggatgca gtgatecgt tacattcaaa gctcaagaag aactctcaga ttcaggctgt 120
gctgaaatct caagatatac cggttttcct cgtaaagaca aactccctgc ctcaaaatac 180
cagggcactc cgggctcttg tccaccatca cattgaccaa attatagaat accatgatta 240
agaagaagcc aggtcattaa aagaaacca tgcttttgaa gaagcaaggg ttgcaattca 300
accagtagtg attcccaaag gccaaaacct tcaactactt gccagccat taagccttat 360
tttgttccaa gtgggtct 378

<210> 14698
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C9

<400> 14698

cgcgatcgtg ggcgcggacg gcgtaaactc ttgcgtggcc aaggacatgg gcgcgggcga 60
 ctgcgagtag gccatcgcgt tccaggagcg cgtcaagatc cccgacgaca agatggtgta 120
 ctacgaggag cgcgcgagaga tgtacgtcgg cgacgacgtc tctcccact tctacggctg 180
 ggtgttcccc aagtgcgacc acgtcgccgt cggcacccggc accgtcacgc acaaggccga 240
 catcaagaag tttcaggccg tcacgcgcct acgcgccaaag gacaagattg agggcggcaa 300
 gatcatccgc gtcgaggcgc accccatcct cgagca 336

<210> 14699
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-D10

<400> 14699
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 cctgcttttg taataagtta tgcactttga gtatatcagt acttgtaata aatattattc 120
 tttcaaaaca tgtaaaactt gagttttgaa aaggtaaaga atgtttgtaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaatataa aaaattaaaa 270

<210> 14700
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-D2

<400> 14700
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 ttgtcttcaa cgaaacaata cctnngttgt tttctgggtg acgccatcct tctacacgaa 180
 gtcctgaagg aaaatggctt gcattgtcaa attggctcctt aatttaatga ttaaattgaa 240
 ttaaccagcc tttttaacct gccattcaag ggaaaattga attttccatg attcattaac 300

attcctggtt ctattagatc cagaaacccat tttgtggtaa gtcttacacc agaattgctt 360
gttgacttga gcacaaaacc cattcattta atggtcctct ttaa 404

<210> 14701
<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-D5

<400> 14701

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tgtgagtgag tgatcgagct agctgagctc cgatcctcgc tagctagcta ggat 114

<210> 14702
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-D7

<400> 14702

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actagatcga tcggttgcca aatggcgggg atgacagtcg gcaataagct ggcgctggct 120
gcggtgctgc tgtccccggc ggcggccatg gccacggcgc agcaggcctc cggcgtgcgc 180
gcaacttaca actttttacaa c 201

<210> 14703
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-D8

<400> 14703

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tctgtgatgc aattgttcag atctatttgg ataatggtgg agacctggaa cttgtcgcca 120
aaagtatcga gtcttcagac ctcaacttct cacgttacgg tgacaccttt tttgaggtgg 180
tttttgttgg agggcgccact cagccaggca ctgtacaacc tgaagaacga gaccgccacc 240

cttattcgggt gtttagattgt gcgtcacagc gtggaagcat ttttgccttc ggactcaata 300
tccagaaacc tttgccagg aggctttttt aattaaggat cctggaaatg gtaatgctta 360
attcctggca ttcttggaag tccttgaagg aaa 393

<210> 14704

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-029-Q1-K1-H7

<400> 14704

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gtgccggcgg agctggtggc ggccggcagc cggacgccgt cgcccaagac gaaggcgtcg 180
cagctcgtgg ggcgcttctt ggccgcgtcc gagccggccg tgttcgtgca gtcggcgac 240
cacggccacc tcgcctactg ccacaccaac caggcgctcc tccgaccag gtcgttcgag 300
gccaaagacg aggtgttctg cctgttcgaa ggggtgctgg acaacctgng tcggctgagc 360
cagcagcacg ggctgtcaag catgggcgcc aacgaggtgc ttctcgt 407

<210> 14705

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H8

<400> 14705

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cgttcttcag aagtttagag cgtccctatc tccttccctc tgctctgatt tttccagcag 120
ctggtttccc cggatattct tccacgtgc gccgattagc acctggatat gttctccagc 180
gcacagcctt atcctgcagc cgcctcgcgc tgattctttg ccagccgcgc ctctgggcga 240
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tcttccccca gtcgtctctt tcctctgctc gtcgctaaaa ttgctggcc gcgaatgccc 360
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<210> 14706
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-H9

 <400> 14706

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acctgaccgg cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgcggacc 180
cggaggcggtt cgcgcggaac agggcgctgg aggtgatcca cgggcggtgg gcgatgctgg 240
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agcccggtgtg gttcaaggcc gtctctcaga tcttctcgga tggcggtctg gactacctgt 360
gcaaccccaa ccctgtgcac 380
  
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<210> 14707
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-A10

 <400> 14707

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cgccggcgcc aatctccacg acgacgtgcc ggccggccgt cttggcgacg gccgcggccc 180
agaagaggag cctgctgctg gcgacggcct ccgagacgag gggagtcgcg ccggtgaggt 240
ccagcgggat cgagacgagc acggtgggtc tgggatgtga ggccgtcacc gggcaggtca 300
cggaggtcaa catggacacc ttctggccca tcgtcgaggc cgtcggcgac aaggtcgtcg 360
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<210> 14708
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-A12

<400> 14708

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gacgccggtc ataacaacaa tactcaagag attcattgct tcagctgcac accatatgga 180
tccttcattc cctgcagctt gtaaaacctt gtttagttta ggaaacactc cattgataaa 240
actagaccga tcctaaaagg aataggTggc tttattatat cagtattaag aagaaaataa 300
gcactcaaTt tcacctctag gacttgaacc taagtgttgt gggcgTtcac accctcaacc 360
agctaggctc agcttccttg tctctttcgt gggctctatg 400

<210> 14709

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-A3

<400> 14709

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actaccaatt acaagtgtgg ggacattatc taagcagaaa gcaccggtag ggaatgatgc 180
tattgtttct agagacgctg tgatatctgg accaaatttc ttgggaaggt caagtggatc 240
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ttcacgagcg cgcacaactg atgcaagccc tggggTgttc cgcagagcct caagtcctca 360
gagaagctca cctgtccact ctgcagaaca gaagcgctca ttctcaagcc gtcattccatc 420
taatgcgaag aactacgat 439

<210> 14710

<211> 267

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-A5

<400> 14710

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atcgccgggc ggcggcgng gaggggaagg taggcgatga ggaaacgtga gcgggagaat 120

ccgtgcggga tctgcgggca ctaccacaag tacgaggagg gggaggtatg cggngtgtgc 180

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cccacagaag tgctcaagga cttcctc 267

<210> 14711

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-A7

<400> 14711

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aggctgcggc ggcggcgccg catctactgc actgcggcgg cttcgccgc gtagcgcaac 180

ctccaacgct tcaacggcca gggcaggctc cagccttcg ggcggcggc accgaacca 240

agctggccaa cttcaacttc ttcttcttc gggggaagga ccagaaccgc aatggacttt 300

t 301

<210> 14712

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-A8

<400> 14712

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ccgggaagac cctccttgcg cctgccgtcg cttgggaagc ccgggtgcc ttcttcttct 180

gggctgcctc ttaattccgc gagctcttcg tcgggtgcgg tgcttcagg gtgcgcgacc 240

tttttgagaa ggccaaggcc aaggcgccct gcattggctt cattgatgag attgatgccg 300

ttggaaggca actcgggtgcc ggacttggtg ggg

333

<210> 14713

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B1

<400> 14713

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tctcgctcgc gtcggccgcc gcggttgccg ccgccgtcga cgcggaggac ccgctgatcc 120

ggcaggtggt tcccgggtgga gatgacaacg atctggagct gaacgcggag tcccacttcc 180

tgagcttcgt gcagcgggtc ggcaagtcct acaaggacgc cgacgagcac gcgtaccggc 240

tgtccgtttt caaggccaac ctgcgccggg cgcgccggca ccagctgctg gaccgcgtcg 300

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<210> 14714

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B10

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cg 182

<210> 14715

<211> 379

<212> DNA

<213> Zea mays

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<400> 14715

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 tggacctcat caaccaggat accaggccta tggattaatg agaacccttc caaccgaatt 240
 caatttgacc taatggaaac caccagaaaa cctatgccct tgggaatcct gaaccctgct 300
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<210> 14716
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B4

<400> 14716

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 aagctcctca agatctgtgt agtcaatacc catcagcttc aagaaaagcc aaatgccata 180
 ctctggtatc cttcctctat gccttaaate taatcaccaa aaccttaacc agaaaccagt 240
 tcagaacctt tcccgtcctt ttaaacccta ttaaaccctg ttgaatttgt ccaaaaggat 300
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<223> unsure at all n locations
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<400> 14717

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 ccccgctccg catcccgcg gagaaacagt cgggcctcta cggccttcga gcttgacgag 180
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ctcatcctgt cctccgtccg ccctgcaaac cctagccctg ttccacgcct acgccgtccg 300
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<210> 14718
 <211> 423
 <212> DNA
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 <223> Clone ID: LIB3060-029-Q1-K1-G11
 <400> 14718

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 cgcgggggccc gccgcagccg cggcgggatcc gcccctggcg gcgggaccgg cggggtcggg 180
 ccgaccaggc gcccttttaa aagggtctggg aacaggcagg cgccctacca gccgccgaag 240
 gccccgcagc ctgcgtggca gcacgacatg taccctgcgg tcgccgcagg aggcggcggc 300
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 tcg 423

<210> 14719
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 <212> DNA
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 <223> Clone ID: LIB3060-029-Q1-K1-G12
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 gttacttggg gacttcaacg atgcatggaa tgattttgag aagatgatta ccattgacaa 180
 atcatcagaa caggacgcta catccggact ccctaaactt aagcagaaag aacacgaagc 240
 cgaaaagaaa gcgaggaagc aattcaaagg actctttgac aagaagccat gagagatatc 300
 cgaagttggg gtagaat 317

<210> 14720
 <211> 338
 <212> DNA
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 <223> Clone ID: LIB3060-029-Q1-K1-G4

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 cccgattgcc gtagtatgtc ctgcaaacaat tcggcttcaa tgtcccgtcc tgcgtgtccct 180
 atccgtccgc agaagtcttt caatcgccag acatatgtgc atagaataga cctaagatca 240
 agcctattcg acatgggtgat tcacgaccgc tctgatcaac ttccgttatg gcgcccattc 300
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<210> 14721
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 gtctgtgcgc cgagctcccc tgccgtgttc ctactgttcc ctatgcgcgt agccgtgtct 300
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<210> 14722
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-G8

<400> 14722

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gtcgtcgcaa ctgcctgca gggcggttcgg cgtctacgcc ggcgccgtca ggatcacgtg   180
ctccctgcag gacgtcgcca gcagggtcgt cgacaccgcg aagctcgccg gcttcgcgct   240
cgccacctcg gcgtcctcgc tctcggggcg gagcgcggat ggcacgcca agaggctgac   300
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<210> 14723

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-G9

<400> 14723

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aagtacctcg gccccttctc cggcgagccc ccgagctacc tcaccggcga gttccccggc   180
gactacggct gggacaccgc cgggctgtcc gccgaccccg agaccttcgc caagaaccgc   240
gagctggagg tgatccactc ccgctgggcc atgctcggcg cgctcggctg cgtcttcccc   300
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cagatcttca gcgagggcgg gctgga                       386

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<210> 14724

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-H1

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 gtacgacgag ctccgcctcc ggggcttccc gcgcggcctg ctcccgcca acgtgcgggc 240
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<210> 14725
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-029-Q1-K1-H12
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 caagcttcag aacatgttca agaatacatt tcagtcctggg ttctgtcca ttctttatag 180
 cctcgggacc aagccattgc agatatggga taaggaagtt gtgaatgggc acattaaacg 240
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 aacttacatc acatgcccg ctgacccctc tgctactctt gggattaagc ttgcatttct 360
 ggctattatt gcgaaaaatc ttaagaaata cttcacgttt gagatccaag ttctggatga 420
 caagaatg 428

<210> 14726
 <211> 376
 <212> DNA
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 <223> Clone ID: LIB3060-029-Q1-K1-H2
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gccgtctcct cgtcgccctc ctcgccgcgt cgctcctgct cccgctcgcc cgcgcggact 180
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 gcggcctgct cccggccaac gtgcgggctt acacgctcga ctccgggtcc ggggacttcg 300
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 tcagcgaccg tctcac 376

<210> 14727
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E3

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 aacatcatgc caacagtaac cacactcgcc gtcataaagg cgctgctcgt cagcaccacc 180
 cgcggccacg cgctgttgaa gaagaagtcc gacgcgtcga cgggtacaact ccgtgccatc 240
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<210> 14728
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E5

<400> 14728

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 aaaagaagtt gggatagagt tgcctcacgc aactgatgtg ctgcacaaaa acgggtcaga 180
 tggactagaa atgaacgatg tttctggatt gcgcactgtt ggaatcctga atacatcttc 240
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 agagcagcaa acaaggacaa gtaacagtaa tgctgctcac catgcaacaa atagtattac 360

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ag 422

<210> 14729
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E6

<400> 14729

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cgtcgacttt cgcgggcgac accagcctac ggctcgagct ggactagaac cccgaggcga 240
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<210> 14730
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-029-Q1-K1-E7

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agccaacgcg aaacaaacca tcgtcaccca atagccaccg gccaaactgtc aagcactcct 240
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gccggcgcg gcgagatttg agctgaggcc atggagtcac cgttccgggc cgacgtggtc 360
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<210> 14731
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-E9

 <400> 14731

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 gcgcaacgtg gggcacggcg acaagaagga cgagccgtgg tggcccgtgc tggacacccg 180
 cgacagcctg gtggagacgc tgaccacat catgtgggtc acctccggcc accactcggc 240
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 gccggagacg acgctgctgg acatg 385

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 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 14732

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<210> 14733
 <211> 349
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-029-Q1-K1-F10

<400> 14733

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cctgggctgc tccagtctgt ggaaaggcga cgaaccaact cgggggaatt ctagtcttga 180

ggccgccgnc tncgccttca gccctccacc gacttaactg tctggaactg gaagtgtacc 240

actactattc aattggccct agccctcgca tagcacgatg ccgtcggccg cggttgagtt 300

cgcgatcctc gccgtgcct gcaggttcaa caagcccctt accgttctc 349

<210> 14734

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F12

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tgctgccaaag caagtggagc acttcacatc ggttacatcc ctgaggacca acaagatcgg 180

cttccctgca ttctcttga acttggttctg gggagttctg ctctggaaaa gacgagctga 240

ataagcactc atcgcaag 258

<210> 14735

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 14735

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<210> 14736

<211> 390

<212> DNA

<213> Zea mays

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gtcccaaaga agactacact gatcaaggca atggaggaag ctgatgtgaa aagcaagtgg 360
gagaatagct catggggcaa gaagctgatt 390

<210> 14737

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F7

<400> 14737

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<210> 14738
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E12

<400> 14738

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gcgtaccca ccttcgacgt cgtcatcgaa acgcaca 397

<210> 14739
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C5

<400> 14739

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<210> 14740
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C6

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<210> 14741

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C8

<400> 14741

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<210> 14742

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C9

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catcgccgca aacaggatcc acacggtgag gagatacccc ctgcaggatg tcgtcgccct 300
cgatagctca aacatcatcg gtgtcgacgg ctacaccacg gatgatctga ggtctgccct 360
gcagcagatg ggtatactgg cacggtaaca c 391

<210> 14743

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D1

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gcatgtcatt gctacattgc gaggggtgca cccagagtca actcaataac tttttggagc 300
agctgagaaa ataacagatg aactaggacc ttatgccctt gcttctgcac ttgcacatat 360
gaattgattt tgtcagacac cttattcacg ttctttgatc agttatgagc agggatgggt 420
gacattg 427

<210> 14744

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D4

<400> 14744

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gctgccggac ggtagcgatt ggtggggcgt cttctaccga agggttgcag gacattcccc 180
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 caggtttggt gacaagaaag tccttggggg ggaggatcag gtggcgggtg ctctgatgag 360
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<210> 14745

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D6

<400> 14745

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 acttcggcgg agcatgagca gcagcagcag ccccggaat ggactggtcc ttcgctagca 360
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<210> 14746

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-D8

<400> 14746

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 ggaaaatcgt tcttttgatg cttctcgtaa tgcactgag gctgtaacaa agcctctaata 180
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 gtcagctgta actgcaatga atggggatag cagaagtttg gttgatgtaa aacctagaat 300

agctgatgag tcaactggaca agtcaaaggc gtggaagctt atggagataa ctgagtcaac 360
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 ttacacaa 428

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 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-029-Q1-K1-D9
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 ttgccgcacc agatgggcta ctccatctac gggctatggg cgcccaactc ggtgtctact 180
 ctgtactacg ctggcttccg ttcactgagc ctgctcaagg gcaccctat gttccgtgag 240
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 gcgtgggaag cgctgtggcg cggagacacg ctgagagggg agtggaacgg ccagatgatg 360
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<210> 14748
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-029-Q1-K1-E11
 <400> 14748

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 tggagaaaag gttggagttg tgggaaggac tggcagtgga aagtcgactt tgggtgcaggc 180
 tttattcagg atcgtggagc ctgcagatgg ccatatcatc atcgatgggt tcaacatctg 240
 cactctgggg cttegtgatc tgagggtctcg cttcgggtgtg attccccaag aacctgtgct 300
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<210> 14749
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A7

<400> 14749

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agatgtctga accatctgct tacgcttgcg gaatcacaca tcgagtccgt catacttgca  180
aagttcattg aatcggtgaa aagctgccct gacgaaaaat cacggaagt attgaagctg  240
gtatgcgacc tttatgcgct cgacaggatt tggcaagata tctgaacgta tcggaatgta  300
tactacgttg ccccaaacia agctaaggct attcataagc tgacagacta cctgagttac  360
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<223> Clone ID: LIB3060-029-Q1-K1-B10

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tacggcaaca gtgaaattga tagcaccaga tggagaggag aaaatagcat gttcagtcgg  180
aacaggcca gtcgatgcag cttacaaggc tgttgacaaa ataatccaga ttccaacggc  240
tctccgagaa tacagtatga catcagtcac agaaggcatt gacgcaatcg cgacaactcg  300
ggttggtgtc actggagatg tgagcaacia cgccaaacat gccctgactg gccagtcttt  360
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<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B11

<400> 14751

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aaagcagcag cagaaacagt tcctggatga agccatgac aagcagccga caccggagga 180

ggaccgtgag ggcgcatggc cctcagtgtc gacgatcatc ggctttggat tcctaacctt 240

caactcattc atggctgtgt acaggtcaaa tggagatgtt ggatctatct cctttgtggt 300

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<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B2

<400> 14752

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<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B3

<400> 14753

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 cacatacata tgctccgctg tgaaaatttc ttggccaatg ccgaaaaatc tcaaggtaga 180
 tatecttcct ttgattacat tagtgtaaca ccaccatatac ttggagggtcaa ctatagcacg 240
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 taccgcgtga aaacagacat ggctgaatcc tgcggaaacc ttgtaaaggt agctgacaag 360
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<210> 14754
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 cagcccgtgg tacgggcccg accgcgtgct ctacctgggc ccgctgtccg gcgcgctctc 180
 gagctacctg acggtcgagt tcccgggcga ctacggctgg gacaccgcgg ngctgtcggc 240
 ggacccggag acgttcgcca agaaccggga gctggaggtc atccactccc gctgggccat 300
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 cgaggccg 368

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 <211> 414
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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catagggcgcg ggcgctcgca ccaccacgac cagcaccgca tggctttcat gcgctccgc 180
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caaatgaaga aggcattccg atatgttata ttcaaaatcg aagagaagca aaagcaggtg 300
gttgtggaga agacaggggc tactactgaa agctatgatg actttttggc ctctctccca 360
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<210> 14756

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B8

<400> 14756

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cactgcgggt gggcgatgct cggcgcgggc ggtatcttca tcccggagtt cctgaccaag 420
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<210> 14757

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C1

<400> 14757

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cgggctcctg gcggatctgc cggaaggcgg cggccggagc gcttggagcg cggcgctaac 300
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<210> 14758
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-029-Q1-K1-C11
 <400> 14758

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<210> 14759
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-029-Q1-K1-C2
 <400> 14759

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 cactaggatc ttccctagcg aaagtgttca ccttttccat tctttgttct gccttcagtg 360
 gcgctctgag gcaccagagg gcatcaaata aacatgccta gatatttaca tcacaaagac 420
 tatgtcaccg tcgatgg 437

<210> 14760
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-A6

 <400> 14760

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 caccaaagag 430

<210> 14761
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-H1

 <400> 14761

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 ggggtgcgcca tcaccatgga cccggaagcg gtacggaaaa gcctggagcc caccgcaact 180
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<210> 14762
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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<210> 14763

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H11

<400> 14763

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<210> 14764

<211> 409

<212> DNA

<213> Zea mays

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gaaaggcttg gacgtggaca acctctatgt ttcacacatc caggtgaacc aagcccagaa 360

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409

<210> 14765

<211> 280

<212> DNA

<213> Zea mays

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tcaccggctc caccctgct cggctccact tctacgacct cttcgtcctc agcggaatca 240

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<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H3

<400> 14766

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<210> 14767

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H6

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cgtcctgccc caggctcacc cttcacaacc tctgtcctta cccggtctgg ccgctcgtca 180

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<210> 14768
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-H7

 <400> 14768

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<210> 14769
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-H9

 <400> 14769

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 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A11

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<210> 14771

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A12

<400> 14771

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catcgagaca gtcaacaacc atcccagtg tgggtggaca gcctcacgta atccttactt 180
ttcaaactat accattgcgc aatttaagca catacttgga gtgaaaccag caccacagaa 240
tgcactaagc aatgttcttg tcaaaactta ttcaagatca ctggaacttc caaaagagtt 300
tgacgctaga tctgcatggc cccgttgc 328

<210> 14772

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-029-Q1-K1-A2

<400> 14772

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tggcttcctc tctcgcgctc cccccaccaa accctaacc gagcaccag cccctcctcg 120
 cgtctgctcg cgccggcctt tggggctctc actctgagcg gcagggaccc gcagggctcc 180
 ggttggtgcc aggaacatc ccagttgttg gcgagagacc aagaaatggc ggagaaggag 240
 ggagcgaagg ttggagcgga agagatggaa gagcgggagc aggaagggga ggcagaggag 300
 gtggaagtga agtttcgtct ctccgatggc tctgacatcg gtcccgtgcg ctgcaacgcc 360
 gtcgncacta ccgtagccgt cctcaaggat cgcgtcgtcg 400

<210> 14773

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A4

<400> 14773

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 aagccgcggc caccctgatg cagccggcca agatcggcgg ccgggcgccc ttgcctcgc 120
 tgccgtcccg ccgctcgtcg caactcgcct gcagggcggtt cggcgctcgac gccggcgccg 180
 ccaggatcac gtgctccctg caggacgtcg ccagcaggtg cgtcgacgcc gcgaagctcg 240
 ccggcttcgc gctcgccacc tcggcgctcc tcgtctcggg cgcgagcgcg gagggcacgc 300
 ccaagaggct gacctacgac gagatccaga gcaaacgta catggagggtg aagggcacgg 360
 gcacggcgaa ccagtgcggc accatcgacg gcggcggtga gtggttcccg ttc 413

<210> 14774

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A5

<400> 14774

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 cagaaatcat atggaagaac catagcattt cgcgattcat tggtaaattt actttgattc 180
 tctatagacc aataatgtga gaccattaac acggttaaag ctaaactgct tgaagtccgg 240

gcaaaaaggg gtactctttc tacaactaca ttagtattag tctcgaaatg ctttaaacgg 300
gaaatagcta gtgtagaatt tatctgatat agaacactca tatcgataaa atagtttgaa 360
ctatttacta gaagggcacg cagtcctttt tccaatgcc aatcgacgac ctatgtat 418

<210> 14775
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-028-Q1-K1-G9
<400> 14775

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cgcttcacca cagcgaacca ccattgaaag attctactac gtcgccgtgg ccaccttcgt 120
gtcgtcttcc ctgctccacc acctcttgac gaggaagaag cagcaacgtc tgccaccg 180
cccgcgggtc gcgtacccca tctcggcca cctccccttg ctcaagaagc cgctccagac 240
ctcgttcgcc gacctcgtgt cgcgccacgg cccaattatt cacctgcgcc tcggccgccc 300
ccacgccgtc gtcgtcggct cggcggcggt ggccaaggag tgcttctccg gagagctcga 360
cgtcgcgatc gccaaaccgc cgcacttccc gtcgcgcgc gaggtcacct tcgactac 418

<210> 14776
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-028-Q1-K1-F2
<400> 14776

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atgttatggt gtccctccat gagctaaaat tggtgcttca taaaatgagc gaacataatg 120
taagggctat ggcagatggt gttatcaacc atcgaattgg aactactcaa ggatccaatg 180
gcatgtataa tcgttatgat ggcattccag tatcatggga tgaacatgct gttacatctt 240
gttctggcgg gaaggggaaac aagagcactg gggataactt tgatgggggt cccaatatag 300
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cagttgggtt tcaagatttt cgctttgatt tcacg 395

<210> 14777
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-F4

 <400> 14777

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 aagaagcagg acaacggcgt gtggtacgac gacagctcgg cgccggtgcg cgcgcagacc 180
 atcgacgagc tgcactcgct gcagcggaag cggtcggcgc ccagcacgcc caagcggtcg 240
 ggcgccacca cgcccatcaa gggcgggtgcc cactcgccct tcgccgtcgc gatctccgag 300
 gaggagcgcc acacgcagca gatgcagtcc atcagtgcgt cgttggcgtc tctgacgcgt 360
 gaaaccgggc cgaaagtggc caagggcgac ccggccgca agggcgaggc cgccgcgcag 420
 ggcgcgccat cgacgccgag ggcgcaccag ca 452

<210> 14778
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-F5

 <400> 14778

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 aggaagacgg cgatgggagc gactacgagg aggaaggcga ggcgctcgac gaggacgagc 180
 aggttgggga cgcggaagcg gagggggctg agggggacct ggacctggac ctttctcagt 240
 acgaggacga cggggagggc gacgtctccg acaggctcat ggcgctcgtc gggatcggtg 300
 attggcgagc aatggagcag gatgatgctg gggacgagga ggacgacgaa gatgctgaag 360
 ttcatacaca ggggtgatgg gaagatgttg acccagacga atactcttac gaggagctaa 420
 ttgcgctggg tgaagttgtc ggt 443

<210> 14779

<211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-F6

 <400> 14779

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 ggcggcgggcg gccatgagca gggggagcga gagcactacc gccagcaggt ggcccagact 120
 ggccacgctg cgcgccctgg cgcgcgacgc cgcgagcag ctgcggctgc cgcgggccgg 180
 cacgtcggcg tcggcgtcgg cgtcgtcgtc gccgtggcgc gggcgcgagg accacctcca 240
 cggccacggc aagacggcca aggtgatgca cctgctgctc tggggaccca agtgaagcgg 300
 cgagaggcca ccgtaccgcc ggcgttgctc gttttgctct gcctgcaatc cggccgcac 360
 ggactgtact gtactgtacc tatacaccta tatactacga cgtgcacatg tacgagtcta 420
 cgacgtgctg ctgtaccata ctaatacta 449

<210> 14780
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-028-Q1-K1-F9

 <400> 14780

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 ggaccagcca ttcccgggca aagatggttt cagaagccag cgagcttggc attggcacac 120
 actatacaca ctggtcgctg atattttgat tccccacgtg cgacacggca tctaccgctc 180
 gaggaactcc acatctatct ctccatgaag ctgcgtatat atgcatgtga gcttggcatt 240
 ggcacaccac agagcagcca cttggatccg gtgctcagcg gaacagctag ctatagcctg 300
 tagctagcag ctagcttcag tcacaggccg gacggtcggc tcacacacag ctagccgncg 360
 ncgctgctag cttagccacc agtagtccga tctgatctac aggc 404

<210> 14781
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-G1

<400> 14781

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caacactgac gactcgaana ctgtcaaaat ccaacaattg cttcactctc ctcaatgtcc 120
actgatatca accccatcca gtccgactca ttcttcaacc cggtcctaac tagcactcct 180
catcccaacc ttattatcct acaccacagt gtcaaaaagaa atgcatacag cacaaccaag 240
tttttcagta aaacaagcat ctcagcattc atgcgtacac aataaatcca catccacatc 300
acataatgcc atacatctac aaacatcgac ctgtctaatt ttcttacaca ctttactacg 360
attttcaaca c 371

<210> 14782
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-G10

<400> 14782

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gccgtccctc tccttctgct cctgctttac cacggctcat caattcgccg ccgtcgtcgc 120
agcagcagat cggccaagca gggaggacag ctctgcccgc cttegccecc ggcgctgccc 180
atcatcggcc accttcacct cgtcagcgac ctccgcacg tctacctcgc tgacctcgac 240
gtcaagcatg gtggcgacga cggcctgatg ctgctccgtc tcggcgctgt tcccaccctc 300
gtcgcgtcat cgcgcggggc cgcggacgcg atcacgcgca cgcacgacca cgtgttcgcg 360
tcgcggccca cgtacactct cagcgacgag atcctgtacg gaccctccga catcatcttc 420

<210> 14783
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-G11

<400> 14783

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 ggctgtttat ggagtttaag aatgaggaag ctacagggcc tggcggttcta aggggaatggt 120
 tttgttttagt gtgccaagct cttttcagtt cgaagcaagt tctcttctca cctgtccgg 180
 aggataaacg aaggtttctac ttgaacgaaa catctgctgt ggatccactg cacctgaagt 240
 acttcacttt tgcggagcgg ataattggat tagccttgat gcataaagta caagttggag 300
 ttgtgataga cctgtactctg ttcttgcac ttgctggcag aagtattacg ttagaagata 360
 tttctgttgc agatcctgtc aaatatgcaa gctgtaaaaa aattctagag atggatgctg 420
 ct 422

<210> 14784
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-G12
 <400> 14784

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 caggtcctga cgttctaagg caatggcact gtcaaagtgt ccaagctctt ttcacttcta 180
 atcaagttct cttctcacc tgctctgatg ataaaccaag tttctacttg aacgaaacat 240
 ctgctgtgga tccactgcac ctgaagtact tcacttttgc tgagcacata attgaattag 300
 tctagatgca taaagtacaa gatgtagttg tgatagaccg tactctgttc ttgcatctcg 360
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 gttaaaaaat tctag 435

<210> 14785
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-G4
 <400> 14785

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gagagtgaag ttaacaatat catggatggg gttgggctac agcctgaaag acacactatc 120
ctgaaaaggc tgaaagagtt gttttccatg cgacagcaag gggtttcttc gcaagattgt 180
gttgagtcaa gcccagatca atgtgtacct gaagaaacaa aggtcaatac aaacctttcc 240
tgtgacccat tagatgtcac tgtggaagac aaaacctctt ttcaagaaca ccatggagaa 300
tttgatgagc ttcgacaaat cattgctgat ttatccaaga gggctgaagc attggagaaa 360
a 361

<210> 14786
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-G7

<400> 14786

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gcaatgtatc tgagaactcg cttcatagcc accaagtgtt cttgtctggg atcctgcatg 180
aaacgactca aatatccaac tgagaaggcg agatctggcc ttgtgttcat cagatagcgc 240
agacttccaa tcaggcttct gtacttggtt gcatcaacct gaggtgaatc actgtccttc 300
agcagcttga gccttggtcc attggtgntc acttngntac aggtgctcag tcctgcattc 360
tccaatactt tcacagcata ggatg 385

<210> 14787
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F12

<400> 14787

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accgtcctac gaggagcggg acgtgctcac gcgcgcgtcc aggaaccgcg agctcaacaa 180
gcacgcgcgc ctgggctgcc aggtcgctct caccgcggag ctgcatggca tggctcgcgc 240

tgtccccgag cctaagccgt gggacatccc gtaatggcct gccgcgacga atggcaaggt 300
 gcggtcttcg acgctgtgag ccttccttca ttccctggc tcggtcaagc ttgtgcgcct 360
 ctgccatacc cttttatggt acggatttga tgaagaataa tagtttgatg ggaaaaacct 420
 g 421

<210> 14788
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-D12
 <400> 14788

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 gactactttc ggtgatcagc gctccgtcgg tgcagaatgc ctgtggctgc tagcccgaga 180
 ctcaccaact ccaggctaaa cgagcacgcc ttacagcgac tccagctcgc tagtgacgac 240
 gagcactaag aagggacaaa cggatagcta caccgactag agatcacaaa cggacgagaa 300
 ctagctcgcc attgccagac tcggcctgac cgacaagctc gtagccacgc tcgagaagcg 360
 cgtgactacg cacctgttcc ccatacagag ggctgagttg attcccgcgc ttgacggccg 420

<210> 14789
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-D2
 <400> 14789

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 atcgcacgt tcagctttac tggttgacct tgtaagatc atctcggaca tcatcattaa 180
 tgtccaatct gtagagtttc gacactgaag ctctcctggc taaagcaaaa tttcatgtca 240
 tctacaagag cataaactg accgaggctt tacagcacgt tctttataat agctcgcgct 300
 atttcttgac gcgggcgaca acagacgacg ccagcttcta tccagataga tgatcatgaa 360

gcctatcaac tttcttatgt ggtggtattc acatgaattg aata 404

<210> 14790
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D4

<400> 14790

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acattgtaca aattctaaca cctcaccccc tctactacac ctcatactca aaccctaacc 120
ctacaacctc tcacccctct actcctacca ataactcccc c 161

<210> 14791
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-D6

<400> 14791

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acactaacct agtgttatcc aggcaagccc cggtgcatgc aacccttcc ttgtgttttt 180
aaataatttt tacacacttt aagtctagtg aatgtgcatt aggtttatag gaggttgcttg 240
gaaacccttt gatgcattgc ctaccttgat atccatacct atatagatac ttctggtgaa 300
gtatcaaaat tatgattttac aaaaaaatgc ttagccctgc ttataggcag atagagtttg 360
tcctttgcac ttatgcctag ctcaagttga tcctgaggaa ggatgacctc tacctgcacg 420
gatatttnta ttggggagcat ggtgggatc 449

<210> 14792
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-D7

<400> 14792

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ggtgaccaac atcctggcgc accgcgacgc gacgcagcgc tcgctgatcc agcaggagta 180
ccgggccgtg ttcaaccagg acctgtcccg gcgcacgcgc tccgagctga gcggccacca 240
caagcgggcg atgctgctgt ggatcctgga cccggtcact cgcgacgcca ccatactgaa 300
gcatgcgctc acgggcgaca tcaccaacct gcgggcggcc acggagatcg tctgctcccg 360
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<210> 14793

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D8

<400> 14793

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agccgctcgc cccgcggcgc ctgccaatgg cgcggcccggt gtgagtgtgt gtgagaggca 180
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ataagcaggg gggagcgggg gtaggggctg gtctggaccg gaaacggatc agcgacgcgc 300
tagacaagca ccttgagaag gcggtcgcat cgccgtccac atcgaggggg tcagcgggcy 360
gcggcggtgt gcgcgaccac caccgcctca tcgtgcgctc ctccgtgtcg tccatcccca 420

<210> 14794

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-028-Q1-K1-E1

<400> 14794

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 tcgagctcgt cgacgtcaac gaccccttca tcaccacgga ctacatgacc tacatgttca 180
 agtacgacac cgtccacggc cactggaagc acagctacat cacactcaag gactccaaga 240
 cccttctctt cggtgacaag ccggtcaccg tctttggcat caggaaccct gatgaaatcc 300
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<210> 14795

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E10

<400> 14795

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 tggatctcga cggaggagac tccgaccatc gctccatgga ggccgaggac tctgaatccg 120
 tcatctccac cttcacctgt ccgcactgtc agcgggaggt tccatcttca aacattgcat 180
 tgcacagcgc gcactgcgct cggaaccttc agaagtgcga acattgcgga gatatggttg 240
 ccaggaagct tatggatgaa cactacgatg aaaaccatgc tccgatgaat tgctcacttt 300
 gcaaacacac agtagaacgc gagctatggg atcctaatac aggcatacaa ggcccacaaa 360
 ggatgctcgc gtgccaatac tgtcagtttg aactgcctgc agttgatctt tatgaacatc 420

<210> 14796

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E12

<400> 14796

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 ccgctagtac cagtagtcgt cgcgtttgca gctaggcaga tctgagttag ccggcggatc 180
 cgatccgtgc gcgtgcgcag tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tcggtggaga 240
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ctcgaggccg aagggcctgt caggcgctgc tgcgctcacg aggcggcccc gccggttcac 360
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<210> 14797

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E2

<400> 14797

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<210> 14798

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E5

<400> 14798

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 acggtcgatg atatgctgat agtggagaaa acagacgacg acgacggaga agagaagttc 120
 ccctacgagg gccccgagtt caccgagctc cctgtgaatg ttcagaaagg cctgttcaag 180
 tacctggagc aaagaggggt aacgctgtcg gctaccaact atatgcacga ttacatgggtg 240
 actaagcagg ctcaggagta catccggtgg atgactaagc tgaaggattt cgtggcgcag 300
 tgaggaacag cgtcgtgatt cggcagcatt gtttggttag cctagcctta gcatgtgtta 360
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<210> 14799

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E6

<400> 14799

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 ctggggtgcc actttcaagg tgggtggaagg gtctactgtc ctgacggcgc tgcactgatc 120

gatcatcatc aggcggaggc gatgcgacga tacagaactt tgtacatgcg tgggtgggtgt 180
aacatagtgg ctggcaacaa gccatgctca tgcaaaccga tgaatctatc tctgtatcat 240
gcatcgatct cggttgcttg ctagtccaga ctccagactc cagacatggc tatatatagc 300
tgggtgctaataaataggagt ataatcgta tctcgatcgg ttgcgtgtgg aatgccaatc 360
aagtgtgtaa tctgttccaa ataacaaacc tatgttcctc caaaaaaaaa aaaaaaaagg 420
gcgg 424

<210> 14800

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E8

<400> 14800

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cccaccgatg gacctccgt cagcggcggc ggctcagcc agaatggtag atttagctat 180
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gattgtgttg atggccagat agttggtctt tttggagttt ttgatggta tgggtgtgct 300
aaggtagcag agtatgttaa agaaaacctg ttcaacaatc ttgttagtca tccaaagttc 360
atcagtata ctaaagtcgc tatagatgat gttataaaa gcaccgacag tgaattc 417

<210> 14801

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F11

<400> 14801

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gagtattgga aatagtcaat agtgggaac ttttgaatga ttcagttttg agactctggt 120
tggagcatgt gtagctacta tttagtgggg tgcagtgtgac atcaaatttc gattgttgac 180
ctcatatatg ttactggact tcaaaatttg ttcttcatt ttcaatctga ctaactactt 240

cgtcgaagtt tttctcatat tttttgtgcc attattagat accatgatga taatagatcc 300
 tgactttatt ttttgtacta caggtagcac aagagtattc tgaatgccca tcagggaaga 360
 aaggtggaga tcttggttgg ttcccgcgtg gcaagatggc tggtcctttc caggaggttg 420

<210> 14802

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B12

<400> 14802

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 aggaggagga gcagcagcag cagcacaagg aggaggaggt ggtccaagga gatgtgcbag 120
 tcgtcgtcca gcaggagacg gcggctgacg aggaggccga gtcggcgctg gtgcgcaaga 180
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 acgcgtcttt caccgacctc gtcacggcct gcatcccgcg cagcaccgtg gacgtggagc 300
 gcctgggccc ggagctgcag cgcattgcgcg cgggcctcat ccgactctgc gccgacgccg 360
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<210> 14803

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B3

<400> 14803

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 ggtggatcta tactatctcc tagtatccaa aaagttcgag aatcctgcac aatgcgaaca 180
 agctttgggc ggcaagttta agatactgta ttacgacctt accactgcgt tccttaacct 240
 ataagatgag tcacggtcaa ctgctgcaca ttttatctaa gacattacct ggctgccaaa 300
 tgtcttataa 310

<210> 14804

<211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-B5

 <400> 14804

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 tctttggcgc gagggcgggc gggacggagg gcgccgagga ggaggcggcg gcggaggagc 180
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 cggtagcagc tgcggcgga ttcgcggaga ccgccgacgt gccggccttg gcgaggacct 300
 .
 ggcggtgctc ttcgcggcgc ttctggagct gcttctgctc cagctccgac cgccgcacga 360
 agctcttgcc cccaagtcg gccgtcgccg ctttccgctt cttctccagt tcccgtttca 420
 gcagatccat tacgccc 437

<210> 14805
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-B9

 <400> 14805

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 acatgttcaa aaagagaatg cttactgata ggaaggacca atcatacaaa atagcactgc 180
 tttttgttga taactcaggt gctgatgtgg tccttggaat gcttccttta gctagggagc 240
 ttttacgcca tggaacagag gtagttcttg ttgcaaattc gttgccggct ttgaatgatg 300
 ttaccgctaa tgaacttcca gaagttatag ctgaaacctc aaagcactgt ggtatccttc 360
 ggaaagctgc ataagctggt ggattgatag tcgatgcaat ggctggca 408

<210> 14806
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C1

<400> 14806

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tacgggcctc gtggaacttt gagccagcac gagaccctcc tgggcctttc ggcgctctca 120
gctcgccggc tgctgaccaa agtcctggcc gagatgttgc ccgacgaggg accggacggc 180
agtccggttg gacagctgcg actcgacaga cttgcc 216

<210> 14807

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C10

<400> 14807

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ttgatctcag ccatggcgga ggtggagcag caacaggaca cgccgaagct cttcaaccgc 120
tggaacctcg atgatgtcca ggtgaacgac atctcgctga acgactacct cgctgtgaac 180
gcgacgaagc acgcgatgta cctgccgcac accgcggggc gctactccaa gaagcggttc 240
cgcaaggcgc agtgcccgat cgttgagcgc cttacaaact ccctcatgat gcacggggcg 300
aacaacggca agaaggcat ggctgtccgc atcatcaagc ataccctgga gatcattcac 360
ctgctcaccg 370

<210> 14808

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C11

<400> 14808

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cgacttcggc tttgatccct ggggcctcgg atctgaccgc gagagcctgc ggtggaacgt 120
gcaggcggag ctggtgcact gccggtgggc gatgctcggc gcggcgggta tcttcatccc 180
ggagttcctg accaagatcg gcgtcctcaa cagcccttc tggtagaccg ccggcgagca 240

gcagtacttc accgacacca ccaccctctt catcatcgag ctcatcctca tcggctgggc 300
cgagggccgc cgttgggctg acatcatcaa gcccggaagc gtcaacaccg atcccatctt 360
ccccagcaac aagctcaccg gcaccgacgt cgggtaccct ggtggcctgt ggtttgacct 420

<210> 14809

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C2

<400> 14809

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caatttccat gctgttctga ccgctgaccg tgccctggtag aacttcgagc caaacgagac 120
cctccttggt cttccagcgc tctcatttcg caacttgctt accaaagtca ttgccagat 180
ttttcccgac gatt 194

<210> 14810

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C4

<400> 14810

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tgggtctggt ggccggtagc agaggttgct acacgtatat attctgaaga agagatcgag 120
atgaccagcg tgtggaagac caaggttctg cctggcctca acaagatctt tgacaaggat 180
ggcaagaaag ctgcagctgc aggcttcttg aagtccttca acaaggagga gattgacaag 240
gagattgagg acaagaagac agagctggag cccaaggctg tggaagccta cgaagcatct 300
cctcctgagg tcaaggctct gttcaaggat aagaagccag tcaaggctcag caagaagaac 360
tcggctgcag tcaccaagtt cctcgatgag ctggctaaga ttgacttccc tgg 413

<210> 14811

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-C6

<400> 14811

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ggggtcgccc agcggacctt ctctctctct tccccgcacg ccccgccgct ggctggctcg 120
ggctacaccc cgcgccgcga gtacggcctg gtgcccattg tgatcgagca tacctcccgc 180
ggggagcgcg cctacgacat cttctcgcgc ttgctcaagg agcgcacgt atgcatccat 240
ggcccatca ctgacgatac ggcgtccctc gtcgtcgccc agctgctctt ccttgaatcc 300
gagaaccccg ccaagcccgt ccacctctac atcaactccc cggngggcgt cgtcaactgcg 360
ggcctngcca tctacgatac catgcagtag atccgntccc ccgtcaccac gc 412

<210> 14812

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C7

<400> 14812

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cgccgtctgg ccaccgtcga ctttcaaacc ttctctgct cttccccgca cggccgccc 120
ctggctgcgt cgggctacac cccgcgccgc gactacggcc tggtgcccat ggtgatcgag 180
catactccc actgcgagcg cgcctacgac atcttctcgc gcttgctcaa cgaacgcac 240
gtatgcatcc atggcccat cactgacgat acagcgttac ttgtagtcac ccaacttctc 300
ttcctt 306

<210> 14813

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C9

<400> 14813

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ggtccgggcc ttcgtgggat ctgtaagaat ctcttgctct ccatacatgt tcttggttg 180
 cgatctgac cagtttgatg ttcgtttttt gtctgggtatt cgattatgct gggatttcta 240
 agaaacccta atcccagttt gatgggttagg gaagtaataa ttacttgatt tgtgaaaggg 300
 gattaatttg tgaaggagaa tgggggtgct atattccttc actaggactc gatttttctg 360
 ttcgttgaga atcttgata gccctctggc gtctgggttt ctagtttctt cggttgcgta 420
 tcgaat 426

<210> 14814

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D1

<400> 14814

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 agcggatcgt ccagggttac tgggtgacct tgttaagatc atctcggaca tcagcattaa 180
 tgtccaatct ggagagtttg aactgaggg gtcctggct aaagcaaaat tccatgtcag 240
 ctacaggggc agaactga ccgaggcttt acagcaagtt ctttctaata gcttgcgcta 300
 tttcttgagg cggccgacaa cagaggacgc cagcttctaa ccagatagat gatcatg 357

<210> 14815

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D10

<400> 14815

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 acccatacac aatcatcttc aactcctgtc agcattacgt cactcccagt tactggatgc 120
 atactctttt acgctagtct agtgttgcta tgttccatcc aactacaatc agtccagct 180
 actcaggttc acttgcagcg tctgcgatta cctgtcaaga ctccgagaac atcttcctaa 240
 gagtaaaagt cataaacttc gggtcagata ctgtgaccct gacaatcttc acaaaggtc 300

tccaatccag tatcaacgct ctttcatcaa ctttcaactgc tctcacatc

349

<210> 14816

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B11

<400> 14816

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ctgcgcggtgg ccacggagtc gtccctcgcc ggcgcgcacgg ctacggtggg tgtgtggatc 120

gatgcggggca gcaggtacga gaacgaggag ggcggccggcg tcgcgcattt tgtcgagcac 180

atgctgttca agggcacagg gaagcgtagc gccgcgcagc tggagcagga gattgaggac 240

atgggtggcc acctcaacgc ttacacgtcg cgggagcaga cgacctacta cgccaagggtg 300

cttgacaagg acgtgccccg tgcgatggag gtcctcgcg acatcctgca gaactccaat 360

ctcgaccagg cccgcattga acgtgagcgc gaagtgatcc tacgagagat 410

<210> 14817

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H6

<400> 14817

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gttgtgttaa cgttttgggc atgccaagaa ctattttttt ggttatgagt ttgtcaaaca 120

tatgttgagt ttgtcgctca tt 142

<210> 14818

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H7

<400> 14818

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 tatgttgagt ttgtcgctca tttcttaaga gctatgtctg tgatcgaaga aatttggtta 180
 ttttagtggc atgaataaga aaaccaagca aatccatggt agaaacttgt ttgtgtgcat 240
 attttgaggg ctttgtttta ct 262

<210> 14819
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H8

<400> 14819

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 ttttaagcca atcatgggca aagttatgga ggttttccgc cctgggtgcag ttgtgcttca 120
 gtgtgggtgct gattccttgt ctggggatag gttgggctgc ttcaacctct caatcaaagg 180
 tcatgcgga tgtgttaggt atatgaggtc tttcaacgtt ccattgttgc tccttggtgg 240
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 tggccaagag cctgaagaca agatgcctgt taatgagtac tatgaatact tcggtccaga 360
 ttacactctt catgttgcac caagtaacat ggagaacaaa aatacacgac aacaactgga 420
 tgatatacga tctaa 435

<210> 14820
 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-028-Q1-K1-A1

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 tcggctccga cggcacgctc aagtccgagg agaaggacgg catcgactac gccgccgtca 180
 ccgtgcagct cccggggggc gagcgcgtgc cgttcctctt caccgtcaag cagctcgctc 240

ccaccggcaa gcccgagagc ttcngcgggg cccttct

277

<210> 14821

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-028-Q1-K1-A10

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tggcatgcgt gcaaacttgt gaactcaaat gtcataaaaa gtgtcaaaaa atcctagtgg 120

tgtacacaac ggaaagcatg gatggtatgg gagcaaagtg gcatagacac aaatgcatta 180

acattaaagg gattaaaaat cctatgctgg acaaagggtcc ccaattcaag tcagcaaaag 240

taggtaaaac acgtaaatga atgtaataat ctaattataa atgttcagta gaattctata 300

tgtctaatac taccttngcc aaaatatctt tgtaaagaga cttcangttc cttttgagggc 360

anatcatcta atctgagcat atctctcttt atattactgt tctcaatggt ctcacatggg 420

ac 422

<210> 14822

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-028-Q1-K1-A11

<400> 14822

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ggcagctgct gggccgcccc gtgcagtcgg ccgtctctag gtcgtcggcg aggaaggcgc 180

ccttcgtcgt cagggccagc tccagccctc cagccaagca aggtgccgac aggcagctgt 240

ggttcgcgtc caagcagtc cttctctacc tcgatggcac gctgcccggc gactatgggt 300

tcgaccgct gggcctctcg gaccggagg gcaccgngg cttcatcgag cccaagtggc 360

tggcctatgg cgaggtgatc aacggccgct acgccatgct gggcgcggtg ggcg 414

<210> 14823
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A12

<400> 14823

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ccccctaca agaagcccca tgaccttaag aaggcctgga aggtgagcgt gctcaccgct 180
gtcatcaagc acatgtcacc agacatagag aagatccgtc gcctcgttcg ccagtccaag 240
tgcctccagg acaagatgac tgccaaggag atctcgacct ggctggcggt cgtcaagcag 300
gaagaggagc tgtacctgaa gatgcaccct ggcgacgcc cgccggcatc cgctggtggc 360
atcgccagtg ccatatcttt caac 384

<210> 14824
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A2

<400> 14824

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ctagactcag gacaaaacag gaggagtggc caagggtgctg atcaaattcc aacatagttt 120
gggccgaaat atatgccaaa aattatcaca agtcacttga ccatcgtagt ttctatttca 180
agcagcaaga tacgaagaac ctgagcacia agtctctcct gacagagata aaagaaatta 240
atgagaagaa aaggaaggaa gatgatgtgc tccttgccat tgctgctgga aataggcggc 300
ctatagttcc caatat 316

<210> 14825
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A3

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ctccttcacc gccgacgacc gcgaggagct cgggaggcaa tttgaacaag caaacctaga 240
agcgatggat gaatctgccg aatggaggat gaaatatgat aaagaaatag agaaaaacag 300
gcagttgcat gatga 315

<210> 14826

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A4

<400> 14826

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ttctctatag accaataatg tgagaccatt aacacggtta aaagctaaac tgcttgaagt 240
ccgggcaaaa aggggtactc tttctacaac tacattagta ttagtctcga aatgctttta 300
accggaatt acctagtgtga gaatttaacc tgatttagaa cactcatatc ga 352

<210> 14827

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-A5

<400> 14827

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atcgggagac gcagagggtcc cgcggcttcg gcttcgtcac cttctccacg gaggaggcga 180
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acgaggccca gtcccgcggc ggccgtggag gggcgggcgg cggctacggt ggtggccgtg 300
 gaagcggcgg ctacggcggg ggcgggcgcc ttgatggcgg cggcggctac ggcggtggcg 360
 gcggcggcta cggtggcggc ggtggctacg gtggtggtgg tg 402

<210> 14828
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-A6
 <400> 14828

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 cctttgtact gaagctgctc ttcaatgcat tcgtgagaag atggatatta tagatcttga 240
 ggatgagaca atagatgctg agatactgaa ctctatggct gtctcaaata atcatttcaa 300
 gactgcactt gggacaagca acccatctgc tctgcgtgaa actgttggtg aagtgcctaa 360
 tgtctcttgg gaagatattg gtggcctgga aaatgttaag agggagctac aggagactgt 420
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<210> 14829
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-028-Q1-K1-A8
 <400> 14829

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 gcatggtcgc gttcgcaggc ggggatgtcg aacgcggccg aggacgcgtt cctcgacctc 120
 gtccgcgcct acgcggcgcg gctcgtgcgc ctgcgccacc cgggcgtgct gtacgtcgtg 180
 caggcgctcg acgagaccaa ggccgccatg gccatggcca ctgagcccgt cttcgctctc 240
 gtagctaacg cgctcgggtg ctttgacaat gttggcaagg tgcccaagga ggtcaagggc 300
 atggaaatgg ggctacttga gattaaacat gggctgctac aagttgcaaa gacgttggtg 360

tttcttcata acaatgct

378

<210> 14830
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-A9

<400> 14830

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acagccgtgg ctgctaagta tctcaatctt gattgctacc tgatactacg tacctccaag 120
cttcttgtgg ataaggaccc tggtttgggt ggcaatcttc ttgtcgagag actagttggg 180
gcacacgttg atcttgtgtc aaaagaagaa tatggaaaaa ttggcagtgt ggcttttagct 240
gacctgctga aaaaaaggct tctggaagaa gggaggaagc cgtatgtgat tcctgttggt 300
ggatcatact cattngnaaa cttgggatat atngaggcaa taaggga 347

<210> 14831
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B1

<400> 14831

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gaagaagaag atggcttctt ccgcgtacgc ctcatggtcc aagcgggtga tccgtcccga 120
ggtgtaccgg ctgttcgtgc cgatggccgt ggcctgggt atctgctcgt accagcttgt 180
gcgcaacatc acgggcaacc ccgaggtgcg ggtgaccaag gagaagaggg cggccggcgt 240
cctggacaac cacgacgagg gcgagaggta cgccatgcac ggctcagga agttcgtccg 300
cggaagaag cccgagatca tggcttccat caactccttc ttcgccgacc ctcccagga 360
cgattaagct agattccgtc atggatggat gagtatgttt taccaatca 409

<210> 14832
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-028-Q1-K1-B10

<400> 14832

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gtagcgcagg cgaaaaggcg gcagcagtgg acggcggcga accctagcct agctccgcga 120
gtgcggttggc ggtttgattc gatggccgtg gcgtcgcggc tcgcggtcac gcgtgtgtcg 180
ccggcgggacg gcgcgcgccc cgcgggcgcg gcggggagga ggagtgggct cgcggtgggtt 240
cggctcccg cgcaccgacag cagggggaga aggaggaggc gcggcggggc cgctcgcggcc 300
agccccccga cggaggaggt cgtgcagatg acggagccgc tcaccaagga ggacctcgctc 360
gcctacctcg tctncgggtg caagcccaaa gagaact 397

<210> 14833
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H5

<400> 14833

gcccagtcgt ctcccacgtc ctagcacaac agagtagagc tagcaaaggt atctgccatc 60
caccatggcc gtctccatcg ccggcagcag catccgcctc cacgttgccc cgcccagtcg 120
ccgccgcgtc agcgtgggtc ccgccgccgc cgcgggcccg ctcgaccggc gctcggcgggc 180
cctgtccttg ctgtccaagg cggttccagc agcatcgga gcgacagctc cccagcgag 240
cgccgcgggc atcgggtctc tcggcatcct caagaagctg gagcgcgcgagg aggaggcggc 300
ggccgaggcg gtgagggagg tggaggaggc ggtg 334

<210> 14834
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-F3

<400> 14834

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tccccgecta ccgctgcgac caccgcaccc gcgaacttgg cgggcccgtc ggcgctgcac 120
 accaagccgg ggatggccga ctgcttgcg agctgcgcgc ttgaccacct aactacctcc 180
 cgtctccgcc tccccaggcc ccatgcctcc gcttccagtt cgggtccagt ctgctggatc 240
 ggcgtgtgct cgggatggat gctcacggcc tagtggagag ccctgatgca gcgccaccgg 300
 cttcgatgct tgtccaccga cgggtg 326

<210> 14835
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-027-Q1-K1-F4

<400> 14835
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 gctttccgtt tctcctcca acggtgcacc agtgccatcc ctgacaacag attcggagaa 120
 gaagggccca gtgataatgg aaattccact ggaccaaadc cggaggccac tgatgcgaac 180
 gcggggcaat gatccagtca aggtgcaaga actcatggac agtatccgtg tcatcggcct 240
 tcaagtacct aatgatgtgt tgaagtccat ggggtctatta tggctctctg gatgccaccg 300
 ctacgaggct caccagcgcc cttggtctcc caaccatccg ctgcanagtt cgccgtggga 360
 caaaggaaac actgaggcac catatgcgat gagttatatt ttattcagt 409

<210> 14836
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G11

<400> 14836
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 ttacttgggg acttcaacga ttcaagggat gattttgaga agatgattac cattggcaaa 180
 tcatcagaac agggcgctac agccggactc cttaaaacta agcagaaaga acaagaagcc 240
 caaaaggaag cgaggaagca gttcaaagga ctctttgaac agaagccagg agagatatcc 300

gaaattggtg tagaatcaga tgggtggaaag gatgcatgtg at

342

<210> 14837

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G12

<400> 14837

cgcgagtgag tgaacaccag ccgtattgtc ccgaccccga ccgatacctcg cctgctgcag 60
ccatggcgac ctccgcggcg ctctccaccg ccgccaatcc caccagctc taccgggtccc 120
gcgctttgct gggcaagccg gtgaaggggc ttggcctgag catgggccgc gagcgcgccc 180
agcggagcat tgtgtgccag gcggcgagca gcctctccgc cgaccgcgtc cccgacatgg 240
agaagcggaa gctgatgaac ctctctctcc tggcgccat ctggttggcc accgtcggca 300
tggtcgtccc ctacggcgcc ttcttcgtcc ctgccggctc cggaacgcc ggcggcgggga 360
cctacgcgaa agacaagctg ggcaacga 388

<210> 14838

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-G2

<400> 14838

cacgcgtncg atcccagaga aatagcgctg gtggtgatgg gactaccacg ggcattgggtt 60
tggctcgggg aatcatcaat cctggggttg ttgccagtgg caattgttcc taaccagtt 120
gctttgaaaa ggggtattga caaagccgtt catgagctaa ttaagatctt gaagagtaaa 180
tgtatccctg tgagtacaaa ggaggacata aaagtaaata ttacgttctg gaaaatagtg 240
ttcgtgtgtg taaaaat 257

<210> 14839

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-G3

<400> 14839

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ggactcgttc gagcgcgctc gcgcccagga gatgcgcgcg ctgcgcgcgc gcctgttcga 120
gtgcgccggc cgcggcgccg tcgcggtcag ggagcacgtg gcggggcgca cgctgcggaa 180
catcctccgc atggcggtcg gggagaagtg gtcgggctgc tacggtagcc ccgagggcga 240
ggcgttccgg cgcacgctgg acgaggcggt cgcggtcacc ggcgcggtca gcaacgtcgg 300
cgagtgggtc ccgtggctgg gctggctcga cctgcagggc tgcgtccgcc ggatgaagcg 360
cctncgcgcg cagtacgacc gcttcttcga gcagatctc gacgaccacg 410

<210> 14840
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G4

<400> 14840

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tgttcccttc gatc 74

<210> 14841
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G5

<400> 14841

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gctgcccacc tcgccgctc ccgcgcatt cctgcctggc agcgcccga cgcgggggca 120
acaatgcgtc gaacgcctcg ccggcaccgc agcagccgag gtgggggtgcc gcggtatccg 180
ccgcgctcgc ggcgggcgtg attgccgcct ctatgccagc ttacgcggac ctgaacaagt 240
ttgaggccga gcagcggggc gaatttggca ttggctctgc cgcgcagttc ggctcggccg 300
atctcaagaa ggctgtccac gtaacgaga acttcaagcg ggccaacttc acatccgctg 360

atatgagaga gtcag

375

<210> 14842

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G6

<400> 14842

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ttcaggagtgt gtcaagatgt tcttattgct gctgctatgg gagctgatga atatggcttt 120
ggttctgtag ccatgatagc tactggatgt gtcattggcac ggatttgtca cacaataat 180
tgtccagttg gagggttagt tcagagagaa gagcttcgtg caagggttcc tgggtgttcct 240
ggggatcttg ttaactactt cctctttggt gccgaggagg ttcgagctgc attagcccag 300
ttgggttatg agaagttgga tgacatcatt gcgcgaacag atgtgcttaa cccaaagcac 360
atctcattgg tgaacacgca acacattgat cttggatacc tcctatcaga tgctggattg 420
cctga 425

<210> 14843

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G7

<400> 14843

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tccatggacg tcgtcatcac cgcccttacg ctacgctacg agactacgca taggcgggct 120
gccagggcc gtattctatg caccgtcgca cccgatcgct caccgatgcc atcgctacgc 180
ctccgccctt acggacagcg atcagcccgc tctcgggtc ggtccaccaa ggctgtagcg 240
gcagcactag ctgatcctct caaggctcatg atatcaagag ctactacgtc cggcaagggc 300
acacagtgcg agctgattaa gacc 324

<210> 14844

<211> 345

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G8

<400> 14844

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gctcaagacg tggtcacgcg tgctgctacg gcagctgatg aatatgccta cggttctgca 120
gccatgatag ctactggatg tgtcatcgca cgcattcgtc acacaaatca ttgtccagtc 180
ggagcgggcta gtcacagaga acagcttcgt gcaagggtttt ctggagcacc tggtcattctt 240
cataactact tgctccttgc aacctaagaa gatcaagctc cattagccca ggtgggttct 300
gacaaggcgg gctacatcag tggacgaaca gatttgctta aacca 345

<210> 14845
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H1

<400> 14845

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acaaaggagc cagggcttac cttcatgggt gcaaaatttg atggcattct tgggctaggc 120
tttcaagaaa tctctgttgg gaatgcaaca ccagtgtggt ataacatggt gaaacaaggt 180
ctcatcagcg accctgtttt ctctttctgg tttaaccgac atgctgatga aggagaaggt 240
ggtgaaattg tgtttggtgg aatggattct agccactaca agggcgatca cacgtttgtc 300
ccagtcactc ggaagggata ctggcagttc aacatgggtg atgtcctggt tgatggaaag 360
tccactgggt tttgtg 376

<210> 14846
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H12

<400> 14846

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cctcctgccc gtcgcccccg cccccgcgc caccgtacc ccgtcgcggg ggcacctgcg 120
 cttccgcgcc gcgcgacctc tgccccgacc ccgctcccgg agaatttggt gtcaatctat 180
 caactcaact aatgttttgg gagcttcttc gaagacatct gatgaggcaa tcccagtcoc 240
 agttgtccag atagatcaag actcagaccg tgatgcaacc attgtgcagc taagttttgg 300
 agatcgtttg ggggcattac ttgacacgat gaaagctctc aaggaccttg gccttgatgt 360
 ctcaaaagga agtgtggcaa ctgactcagc tgtcacac 398

<210> 14847
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-H3
 <400> 14847

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 ggccctaaac ccctttcttc gttcccttcc gtctctcagt taggcacaat gatgctagct 120
 aataagcttg gtgggtctgt caagaatgt acgagttcaa atatgtctgt ctaccaagca 180
 atcacatgca tgtcatcctc caagctcttt gttggagggc tttcttatgg aaccgatgat 240
 cacagtctca gagacgagtt tgccaaatat ggacatgtca ttgaagctaa gattatcctt 300
 gatcgtgagt ctgggaggtc cagacggttc ggctctataa cttacacgtc atttgaggag 360
 gcttctgctg ccatcact 378

<210> 14848
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-E3
 <400> 14848

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 ggcggctctg taatctggtc cactagcgct ccattcgacc ccaccacag ccatggctgc 120
 cgtgaccgcg gcggccgtct ctctgccttc ctctctctcc tcccctgccg ccgccaaggc 180

caaggcgctcc gcgtccgcgt ccccgctcgtc tccatgcggc cacctccagt tcccgcggcg 240
gcacggcggc ccgcgcgcgg tgcggctgcg ggtgcaggtg tccaccaccg agaccgcgga 300
ggcggagccg gtcaagaagc tggagaaggt gtccaagaag cangaggagg ggctcgtcac 360
caacaagtac aagcccaagg agccgtacgt cgggaggtgc ctgctcaaca ccaggatcac 420
c 421

<210> 14849
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C12

<400> 14849

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gaaactaaag caagtgttgg atttaaagct ggtgttaagg attataaatt gacttactac 120
accccgaggt acgaaaccaa ggatactgat atcttggcag cattccgagt aactcctcag 180
ctcgggggttc cgctgaaga agcaggagct gcagtagctg cggaatcttc tactggtaca 240
tggacaactg tttggactga tggacttacc agtcttgatc gttacaaagg acgatgctat 300
cacatcgagc ccgttctctg ggaccagat caatatatct tgtatgtagc ttatccatta 360
gacctatttg aagaggggttc tgttactaac atgtttactt ccattgtggg taacgtattt 420
ggt 423

<210> 14850
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-C5

<400> 14850

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gttggattta aagctgggtg taaggattat aaattgactt actacacccc ggagtacgaa 120
accaaggata ctgatatctt ggcagcattc cgagtaactc ctcagctcgg ggttccgcct 180
gaagaagcag gagctgcagt agctgcggaa tcttctactg gtacatggac aactgttttg 240

actgatggac ttaccagtct tgatcgttac aaaggacgat gctatcacat cgagcccgtt 300
 cctggggacc cagatcaata tatctgttat gtagcttata cattagacct atttgaagag 360
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<210> 14851

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B12

<400> 14851

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 gggcttggtt acaattccga atacgctatt acatgtttgc gctagttttt gttgtttttg 180
 atgtggaaac agtctttctt tacccttggg caatgagttt ttgacgtatt gtgggtgttt 240
 cgttttaatt gatactttta tttttgtgct taccctatct gtatttttag tttatgcttg 300
 tctttttgta ttttttgtat tggttttatt tgtatttttg tttattatt 349

<210> 14852

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-G2

<400> 14852

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 atttatgttg ctgctttacg aatatgatat tttttggaca tttctaataa tagcaagcct 120
 tattcctatt ttggatcttt ggatttcagg acttttagcc cgggttagtg aaggaccaga 180
 gaagctttct agttatgaat cgggtataga acccatgggg ggggcttggt tacaattccg 240
 aatacgctat tacatgtttg cgctagtttt tgttggtttt gatgtggaaa cagtctttct 300
 ctacccttgg gcaatgagtt tcgacgtatt ggggtgatcc gtttttatcg aagctttcat 360
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 gtcttaactg aatattcag 439

<210> 14853
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-D4

 <400> 14853

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 gtaggttatt tgaagtatat tactatcata tacattatct aaatcgatcc actttaaata 120
 aaatagaaaa aatcgaaaga aaaaaaaaaa gaaagagtaa ataataaaac aggatattct 180
 gtttcataat tctgaaatag agttcttttt tttagtatta ctcttcatta ggatgtatat 240
 attaatcatc ctattttaat atat 264

<210> 14854
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-042-Q1-K1-E10

 <400> 14854

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 cgcgttacga caagcatata tgggggagat caccaatgtc atggagtacc aggccatcgc 120
 gaagcagaag cttccgaaga tggcctacga ctactacgog tccggcgccg aggacgagtg 180
 gacgctgcag gagaacaggg aggccttctc caggatcttg ttccgtccgc gcatactgat 240
 cgacgtgtcc aagatcgaca tgaccaccac cgtgctgggg ttcaagatct ccatgcccac 300
 catggtcgcc cccactgcta tgcagaagat ggctcaccca gatggggaga acgccactgc 360
 gcgcgcggcg gctgcngcag gcaccataat gacactgtcg 400

<210> 14855
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-B7

 <400> 14855

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 cggccgccac accaccgtac cccgaccctt cgacaacaat ggccaccgtc ctaggcagcc 120
 cccgcgcgcc ggctttcttc ttctcgccgt cctccctccg tgcgcgcgcg gcgcccaccg 180
 ccgtggcgct gcctgcggcc aaggtgggca tcatgggccc tagcgccagc agcaggggca 240
 ggctgcgcgc gcaggccacc tacaacgtga agctgatcac gccggagggg gaggtggagc 300
 tgcaggtgcc cgacgacgtg tacatcctgg accaggccga ggaggacggc atcgacctgc 360
 cctactcctg ccgcgcgggg tctgtctct cctgcgccgg caaggctcgtc 410

<210> 14856

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-H11

<400> 14856

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 cagcaagccg ggatggctgc actcaaggca tcgttccggg gtgagctcag cgcgcgttcc 180
 ttctctgact ccagcagggg acctctcgtc cagcaciaaag tggattttac gtttcaaagg 240
 aagggcaaac gagctatttc actgagaagg acatgctgtt ctatgcaaca ggctccacca 300
 ccagcatggc ctgngcgagc tgttgctgag cctggccgga ggtcatggga tggcccaaag 360
 cctatctcga ttgttggttc aactggttcc ataggaacac agacattgga cattgttgcg 420
 gag 423

<210> 14857

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A4

<400> 14857

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cagaacaggt ccgagtcaaa tagcaatgat tcgaagcact tctttttcca ttacactatt 180
tcggaaacct aaggtctcga tcgtatggat atggaaaata cacgatttcc ggtcctagcg 240
tgaaaaggat ggaaacggat actcaattta aagtgagtta acagaattcc atactctatc 300
tcatagatcc ctatagaatt ctgttgaaag ccgtattcga tgaaagtcct atgtaccgct 360
tggtagggag atctttccta tctttctaga tccacc 396

<210> 14858

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B2

<400> 14858

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tgagtatctc agaagagctt cccggcgaag gatctgacgg tgaggaggag gtcttcatca 120
acgaggagga catcatccac gagataacca tcgacgaaga agatctcccc gaccgcgacg 180
acgaagatga cgacgtcgtc aacgggatgg ttgattccga agacatcgat gattctacat 240
acgcatttca aggccaccaa gatgaagtct tcattgtcgc ctgcagtcct acagattcat 300
cacttggtggc ttctggaggc aaagatgata ggggattcct gtggaggatt ggatcagaag 360
aggggtgccct ggagctgact ggacataagg atactgtcgg cacagtggct ttcagttc 418

<210> 14859

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B7

<400> 14859

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ctccggcgct gagcgggact ctgggcgcgt cgtcgggtggc ggcgctgcgg ccctgcgcgg 120
ggaggagggc gccgtccgcc gcgagctcgg ttgcgccgcg cgggagcggc gtggtgaggt 180
gctccagagg gctcaggtgg gacgccaca gaagcagggg gaggttgctc aggggtgaggt 240

gcgatgcggc cgtcgcggag aagcccgccg aggaggaggc ggctggggag aagttcgagt 300
 accaggcgga ggtgagccgc ttaatggact tgatcgcca tagtctgtac agtcataagg 360
 aggtatttct ccgggagctt gttagcaatg cgagtgatgc gctggataag ct 412

<210> 14860

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-021-Q1-K1-H8

<400> 14860

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 tgtggttgtt ttacttaaata tcaataatat taatctaata tgcccattgg tgttccaaaa 120
 gtaccttacc ggattcccgg agatgaagaa gcgacttggg ttgacttata caatgttatg 180
 tatcgagaaa ggacactttt tttaggtcaa gagattcggt gcgagatcac aaatgatatt 240
 acaggtctga tggatatatc cagtatagaa gatggaaata gcgatatttt actgtttata 300
 aacttcctg gcggctggct aatctcagga atggcgattt ttgatacgat tcaaacgggtg 360
 acacctgata tatatacaac atgcctcgga atagccgcgt ccattgnctc ettcattctg 420
 ctt 423

<210> 14861

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G3

<400> 14861

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 aaggggcata agcagcactt cttcttttcgg gtgccacaat agttgatctt tctgtcatca 120
 ttgcacctgc tccagagtat cagccacctc ctactgcctc tgcctccacca atgagtggaa 180
 ccagagttcc agttggtggg ggagacaaca acgttgttca caaagccgag gacgtttgtga 240
 gcactatgct tgccaagggt ttcgtgctag gcaaagacgc ggttggcaag gccaaagcat 300
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aaattgg

367

<210> 14862

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B4

<400> 14862

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agagaccct cgcgctcgtg gccctgtgag cagccgcagc catggcgag ccgctcgtcg 120
tgaagaaaga cgacgatctc gacgaggaag agtactactc gccattcctg ggcatagaga 180
agggcgccgt gctgcaggag gcccgagtct tccatgacct tcagctcgac gcgcggcgat 240
gctgccaggt tatcaccaag ctctgtacc tgctcaacca ggtgatgatac ttaccaagg 300
ttgaggctac agaggtcttc ttgcaacga ccaagctgtt ccagtctaaa gatgcccccc 360
ttaggaggat ggtgtacctc atgatcaagg aactctcacc ttcagccgat gaggtcatca 420
tagtaacaag ctctttgatg aaggacatga atagc 455

<210> 14863

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B6

<400> 14863

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atcgacttcc tccccctcac ctgcgaccgc tgcgaccatg tcttttgcct tgatcaccga 120
agttatacat cacaccaatg cccaaatgca aacatgaaag acgtcactgt cctcatctgc 180
ccactctgtg ctaaagggtg tcgcctcaat ccaagtgaag acccaaatat cacctgggat 240
actcatgtta aactgattg tgatccatca aattaccaa aagtgatgaa gaaaaagaaa 300
tgccctgttc ctgggtgcag agagacactg acattttcca acaccatcag atgcaaagat 360
tgcaccagag aacactgcct aaagcacaga tttgggcctg atcat 405

<210> 14864
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-E1

 <400> 14864

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 aggtgcccac gaccgcggag aacttttcgcg cgctgtgcac gggcgagaag ggcgtgggca 120
 agtccgggaa gccgctccac tacaagggct ccaccttcca ccgcgtcatc cccgagttca 180
 tgtgccaagg cggcgacttc acccgcgga acggcaccgg cggcgagtcc atcta 235

<210> 14865
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-F7

 <400> 14865

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 cgtacggcgg ctggggagcc cacggcggtg ggccttctc cggcaaggac cccaccaagg 180
 tggaccgcag cggcgcttac gtggccaggc aggccgcaa gagcatcgtg gccagcggcc 240
 tcgcccgcgg ctgcctcgtg caggtgtcgt acgccatcgg cgtgccggag cccctgtccg 300
 tgttcgtcaa ctctacggc accggcacga tccccgaaa ggagatcctc aagatcgtga 360
 aggagaactt cgacttcagg cccgggatga tcagcatc 398

<210> 14866
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-H7

 <400> 14866

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 agcagatgg ccctctctc cacggccttc gccggcaagg ccgtgaacgt gccgtcgtcg 120

tccgccttcg gcgaggcccg cgtgacgatg cgcaagacgg cggggaaggc caagccggcg 180
 ggggcgtccg ggagcccggtg gtacggcccc gaccgcgtgc tgtacctggg cccactgtcc 240
 ggcgagccgc cgagctacct gacgggagcg ttcccgggcg actacggctg ggacaccgcg 300
 gtgctgtcgg cggacccgga gacgttcgcc aagaacccgg agcctg 346

<210> 14867

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A12

<400> 14867

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 cgagatgcag atctttgtga aaaccctgac tggcaagact atcacctcgc aggtggagtc 120
 gtctgacacc attgacaacg ttaaggccaa gatccaggac aaggagggca tccccccaga 180
 ccagcagcgg ctcatctttg ctggcaaaca gcttgaggac gggcgcacgc ttgctgacta 240
 caacatccag aaggagagca ccctccacct tgtgtccgt ctcaggggag gcatgcagat 300
 ctttgtgaaa accctgaccg gcaagactat caccctcgag gtggagtcct ctgacaccat 360
 tgacaacgtc aaggccaaga tccaggacaa ggaggg 396

<210> 14868

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C7

<400> 14868

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 gcacgatggc gatctcctcc acggcgatgg ccggtacccc catcaaggtg ggctccttcg 120
 gcgagggccg catcaccatg cgcaagaccg tgggcaagcc caaagtggcc gcgtccggca 180
 gccctggta cgggcccgcg cgggtcaagt accttgggcc cttcttcggc gagccccga 240
 gctaccttac cggcgagttc cccggcgact accgctggga caccggcggg cttgccggcg 300
 accccgagac cttcggcaag aaccgcg 327

<210> 14869
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-034-Q1-K1-G5

 <400> 14869

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 tcttctgcat cgtgcatggt gagaaggaag agtcaaaggc catcgatgag aaagcgccg 120
 ggcttggtgg gtccttcgac atcaccaagt tgggcgcctt cggcaatggc aagacagaca 180
 acacgaaggc tgtgcaggag gcatgggcat cggcgatgag cggcactggg aagcagacaa 240
 tcttcatacc caagggcgac ttccttgatg gacaactcaa cttcac 286

<210> 14870
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-B3

 <400> 14870

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 gcaccatggc cctctcctcc acggccttcg ccggcaaggc cgtgaacgtg ccgtcgctgt 120
 ccgccttcgg cgaggcccg gtagcagatgc gcaagacggc ggcaaggcc aagccagcgg 180
 cggcgatcgg gagcccggtg tacggcccg accgcgtgt gtacctgggc cactgtcgg 240
 gcgagccacc gagctacctg acgggc 266

<210> 14871
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-D2

 <400> 14871

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 ccgcggggca atcaacaacg gcttcgagct ctgcatcagc cttggcatcc tcttcgcgaa 120

cgtgctcaac tatttcgtca taaaaatcac agcaggatgg ggatggagga tatccctgtc 180
 catggccgca ctgcccgcg cattcctaac catcggcgcg atcttccctcc ccgagacgcc 240
 aagcttcata atccaacgtg acggcaacaa cacggacaag gcaaggggtgc tgctccagaa 300
 gctgcgcgga acggcctcgg tccagaaaga gctcgacgac ctgggccgtg ctacgcacct 360
 ctacgagca acccgttacc cattcaggaa catactcgag aggaagt 407

<210> 14872

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D8

<400> 14872

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 tctatccgct ccggcccgcca actgccatat gtacactgca ctctgaaagc cacatgaaag 120
 gatcatggct ctggatctta ctacggcgt acatcggttct catgggttacc aactgacac 180
 taagaagata tctgcaactc caatattatg tgagacaatg ccttacagat tggatgaaag 240
 cactggattg attgattacg atcagttgga gaaaagcgct gatcttttta ggccaaagtt 300
 gatcattgct ggtgcaagtg catatgctcg gctatatgat tatgaccgaa tgccgaagat 360
 atgcaacaag cagaaggcaa tacttctagc acacatggca catattagtg ggcttgt 417

<210> 14873

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E1

<400> 14873

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 catgtccctg tgcgcgagct gattcagctt gtcggtcac cactgctcct cggcgctcct 120
 tgctcggcct ccgacggctg tcgtccctcg ccacgccttg gccgcacgc tggtccctcct 180
 cggttccagc catcagttgc cgcggcatcc tctcagttct cggtcagaga attcgcgcgc 240
 cctcaagcgt cagccgcgct gacctccctg ctgcgtgttc tccagctcgc tctggccgcg 300

gacaccgtcg agtcgtcgaa ccccgctctc ctctgctcga ctcccaagca ggctccctga 360
tccacgtcct tctcgccgtc gatttccac gcctgtggcc acggcaactcg ctctcggat 420

<210> 14874

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-E10

<400> 14874

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ccgtgttcgg cgcgacggg cggttcgccg tggacgtgat gctgggtgctc agccaattca 120
gcttctgctg cggctacctc atcttcatct ccaacaccat ggcgacacctc tatccgattg 180
ccgctgctgc ctctcccgcg ctctctctcc ccaaggcgct cgtcatctgg gcgatgctgc 240
ctttccagct ggggctcaac tccatcaaga cgctgacgct gctcgcgcgcg ctcagcatct 300
tcgccgacgt cgtcgacctc ggcgccatgg gcgtggtcct cggccaggac gtcgccgnct 360
ggctcgccaa gcccggtgcc gtggtc 386

<210> 14875

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E12

<400> 14875

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cagccgcctc tctgctcaga tctgcgccg agcctcgccg gcggcctgcg ccccgccgcg 120
ccgccgatcc aagatgcctt cgtgcgtgca gggatgctgc tgctgctcgt cctgctgcct 180
tctccccgcg gacgacgcgc tctcgtcccc ctccgcctgc gcgcaccgcc tgaagccttg 240
gtcttgccgt gcccaatccc ccacctcgtc ctctaacgc ttgtccccgc ccgctcccca 300
cctgatcta cctgtctcta ccttccctc ctccatttct acatctcccc gttgctgctc 360
tgctcctgct gccacaagag tattcgctt caatcggtgc tcgcgcctgt catttcg 417

<210> 14876
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-E2

<400> 14876

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tccaagattc tgggcaccca gctcaacttc gcgggctcct cccgctacgc caccgcagcg 120
cccaccgcgg gggctcagaa gattgtctcc cttttcagca agaagcctgc ccagaagccc 180
aagcccgcgtg cggtatcgtc gtcttctcca gacatcagcg acgagctcgc caagtggat 240
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tacctcaccg gagaggcccc tggagactat ggctacgacc ctnttggcct gggcaagaag 360
ccagaggact tcgccaagta ccaagcctac gagctgatcc atgccagatg ggccatgctc 420
gg 422

<210> 14877
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E3

<400> 14877

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gtgtttactc tccccggcca tcagtgtctc attgggaacg ccgcggtgcc gccggtgaac 120
gccgctggga atgatctcga catggcagac cttgtttggg gccggttgcg tgcgtgatct 180
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agcgcgggcg cgcgtggtgc tggagcctag ggctgtaagc gctatctgag tgggccagtt 360
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t 421

<210> 14878
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-027-Q1-K1-E4

<400> 14878

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 gcaatccgtg aaggcgcgcc agatctttga cagccgcggc aaccctacag tcgagggtcga 120
 cgtgttttgc tcagatggaa cctttgcaag ggcagctgtt cccagtggag catcaactgg 180
 tgtatatgaa gctctggagt tgagggatgg tggctctgac tatttgggga aggggtgtctc 240
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 agcacagact gagattgata acttcatggg tcaacaactt gatgggacca aaaatgagtg 360
 gggatgggtgc aagcaaaagc ttgggtgctaa tgcgattctg gctgtgtcat tagctgtttg 420

<210> 14879
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-027-Q1-K1-E5

<400> 14879

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 tacaccccg agtacgaaac caaggatact gatatcttgg cagcattccg agtaactcct 180
 cagctcgggg ttccgcctga agaagcagga gctgcagtag ctgcggaatc ttctactggg 240
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 tatcacatcg agcccgttcc tggggaccca gatcaatata tctgttatgt agcttatcca 360
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<210> 14880
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E6

<400> 14880

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cagcggcgca gctcccgcg gtcgggtgc tcgggaggcc gatccgggtg gcgccacccg 180
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agaaggacgc ttctgaagtt aagcgaagca aggttgagat aatcaaggaa aagagcaact 300
tcctccggta cctttgaac gaggagtgg tctcagaggc cccaaatc aacgagagt 360
ctgttcagct gatcaagttt catggaagct accagcaaac tgaccgagat gtccgtggg 419

<210> 14881

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E8

<400> 14881

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caaatgggac aggtatcctt tgaaccgact gatgatcgcg accacaaacg ctgcggaact 120
cgactctact ttgcgtata accaccaaac ctatcatgtc caactccctt tcgtgacagt 180
accatgatta ctcaactatc agcacccttg tcgacccag 220

<210> 14882

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-E9

<400> 14882

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ccggatggga accacaacct tacccttacc ccattagccc ggccggcatg ctggttcccc 120
tctgctccgt cgcgccagc ttgggtcccc tctggccggt gacggcctcg cacgtcgctg 180
cgcgggttgc gcggagggtg gacgtcggcg ccgcgtcaa gtcctacgcc gactcgctcg 240

tcgc

244

<210> 14883
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-F1

<400> 14883

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gtgcatcagc attgtttatt gagccgtctc gctgaggagg gggctcaagt tccccagagg 360
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<210> 14884
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-F10

<400> 14884

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ccaccgagga ggcggtggag gcgccaagg ggttcgtggc cccgcagctg gaccccagca 240
cgccgtcccc gatcttcggc ggcagcacgg gcgggctgct ccgcaaggcg cagggtggagg 300
agttctacgt catcacgtgg acgtcccca aggagcaggt gttcgagatg cccaccggcg 360
gcgccgccat catgcgggag ggcccc 386

<210> 14885
<211> 380

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-F11

 <400> 14885

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 tcagccatcg gcaatgcttc cttggtggtg tgctccatcg gtgcaagcga gaaggagatc 180
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 gcgactgctg ccaagcaggt ggagcacttc atcctgggta catccctggg gaccaacaag 300
 atcggttcc ctgcattcct cttgaacttg ttctggggag ttctgttctg gaaaagacga 360
 gctgaagaag cactcatcgc 380

<210> 14886
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-F12

 <400> 14886

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 gagagaattt ggtgaaaatg cgaccagagt acaggatggt ggcaggggtg catctgaaca 180
 tagaggactg gaacccatgg cagaagacat tggttcctcc aagcaagctc ctgcagatgc 240
 cagtgcaatg gccatcgatg aaccaagcaa tgtcaagaat gaacctgaga gctcaactaa 300
 attgcaaggc caagcagctg cgtaccacaa gccatagctg cgaccatcaa gagttgctgg 360
 gtttctgcta ggcaacttcc tgcttgattt ggacagt 397

<210> 14887
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-D7

 <400> 14887

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 gatcatggct ttggatcttc ctacacgttg acatctttct catggttacc agactgacac 180
 taagaagata tctgcaactt caatattttt tgagacaatg ccttacagat tggatgaaag 240
 cactggattg attgattacg atcagttgga gaaaagcgct gttcttttta ggccaaagtt 300
 gatcattgct ggtgcaagtg catatgctcg gctatatgat tatgaccgta tgcggaagat 360
 atgcaacaag cagaaggcaa tactttctagc agacatggca catattagtg ggctt 415

<210> 14888

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C12

<400> 14888

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 tatgttgccc acaaagatga gtacacagaa tttgagcagg catcactcag gcagctattt 120
 cagtcaaaga tggctgaact gagagctgag gctaagcaac aatctgagtc tactggctca 180
 atcggacgtg caaaaggagc atctttgacc acatcaccac agcatcagat atctgttact 240
 gtagtaacgg aatttggttcg ctggaatgag gaagccataa ccagatgcac actactgttt 300
 tctcagccta ctactgttgc agctaacgtg agatccatat ttgcatgctt gcttgatcaa 360
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<210> 14889

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C2

<400> 14889

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 ggcggccagt cagcgactta gcagcagcta gctagccatg ctgccgtcct tcgtgtcgcc 120
 gacagcgagc gccgcggcct tggtgacgcc ttacgcgcgg ccgataccag gcagctacgg 180

gccaccggtg ctgggcccg ctcgggaccg gctcgactac ttctggttcc agagccagga 240
 cgagttcttc cggaagcgcg cggcggcaca cgcagcacc gtgttccgca ccaacatccc 300
 gcccaacttc cccttcttcg tgggcgtgga cccgcgcgtg gtc 343

<210> 14890

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C4

<400> 14890

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 gcgaaagcat accagagcac caagcatagg ggcgcgcgcg cttctccagt tctccctccc 120
 tgccctgcaa ggcggtctga actgttccag ctageccctc tcccagcctc tgggtcgtag 180
 acgtagtagt agcagccgca gcagcagaag cggcggcgag catgctcttg gcacccctcc 240
 ccggcgccgg gcggatctgc cggagggcgg cggccggggc gcttggagcg cggcgctaac 300
 cgcgttcgac ggacctcggg atctgacgcc gggcctacct taatcggtcg actccatcgg 360
 tggcggcggc ggccgaggcg ccagcagccg ggtctctcgg ctccgggac 409

<210> 14891

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-C5

<400> 14891

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 cgtgaaggag gagtgccagc gctggttcat ggagatgaag tggaagaagg tgcaccgctt 180
 cgtggtgtac aggatcgacg actgccgcta cgccgtcttc gacttcgact tcgtcagcgt 240
 cgacaactgc cagaagagca agatcttctt catcgcttgg tcaccggcgg cgtcgaggat 300
 acgggccaag atcctgtacg cgacgtcgaa gcagggcctg cggcggctgc tggacggngt 360

gcactacgag gtgcaggcca ccgacccctc cgagatgggc ttcgacgtca tcag 414

<210> 14892

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C6

<400> 14892

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acccccgtgc gccgctgctc cggcgtctgc tctctctgac ggccctcgcg gcctcctgct 120

cctactacct cctcttcttg caggcgcagg cctccgtccc gccgcggtac gacgggttcg 180

cctacggcgg cggcgccgcg acggcctgga aggacgccgt cctcgtcgag gcctttctcg 240

acccgctctg ccccgacagc cgcgacgcct ggcagccgct gaagctcgcc gtcgagcgat 300

acgcgcgcg ggtctcactc atcgtccacc cgttccact accataccac acatatgcat 360

tctatgcctg ccgcgcactt tacatagctt acaag 395

<210> 14893

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C8

<400> 14893

gtgctgtaga tacgagatcc cgcagcgttc gttgttgac cggccggcta gctgctggct 60

tgcgacagga ctaggactag gaggaggagg aggtgtgtga ctctgctgc cagaccacac 120

aagctcctcc tccgtgagcc accgcggcag caagaataac cttgacgac aagaagaagc 180

agaggagcac gacctgctgc ctccgccagg aggggacgac gtcgttgacg cgcacgacga 240

cgagtgcaag gacatcggcg tcgtgccgga cgacgaggcc aagaagtcct cctccgtcgc 300

gcctagcgct gccggcggcg atccgacgat agcctcatcc gagggcgccg aggaagcgaa 360

ggaaccgttc cagagccctg ctgacgcc 388

<210> 14894

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C9

<400> 14894

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ataagcaaac ttgatcaagt taaccagggtt attggaattg acttgctgtc gcaatcactt 120

ctgccagcca ttgtagagct ctctgaagat aggcactgga gagttcggct tgccataatt 180

gagtacatac ctttgttggc cagccagtta ggtggttggtt tttttgatga caagttaagg 240

gcactttgca tgcaatgggtt ggaaaataag ggtttctcga tcaaagatgc ttgtgccaat 300

aatttgaaac gtttgacaga agaatttggc ccttaatggg cgatgcaaca t 351

<210> 14895

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D10

<400> 14895

catgtatata tcagatgatt ccaaactctgc tgaaatgtgt ttactagcct tctgcgacta 60

taattgtatc acattggagt cccagaggat cgggctcctt ttatagcccc aaggtgccct 120

ctcctggtat gcaagcatca catgtgtctc ctacaactcc gagactccac gaccacactg 180

tttagtgatt tgagagagat tcgagcgcat ttatgaactg tgactctatc gtcctattat 240

tgagctcttg tatttgcttt catgtgtggt gctgatgtgt tatatacttg cgtgcgttct 300

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gacttattaa gatttctcac 380

<210> 14896

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D11

<400> 14896

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ttgggggttg cgggcgcggt tgccgccgcc gtcgacgcgg aggaccctgt gatccggcag 120
 gtggttcccc gtggagatga caacgatctg gagctgaacg cggagtccca ctctctgagc 180
 ttcgtgcagc ggttcggcaa gtgctacaag gacgccgacg agcacgcgta ccggtgtgcc 240
 gttatcaagg ccaacctgcg ccgcgcgcgc cggcaccagc tgctggaccc gtcggcggag 300
 cacggcgtea ctaagttc 318

<210> 14897
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-027-Q1-K1-D2
 <400> 14897

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 tgctgaggtc aaggctctgt tcaaggataa gaagccagtc aaggtcagca agaagaactc 120
 ggctgcagtc accaagttcc tcgatgagct ggctaagatt gacttcctctg gagccaaggt 180
 ggtgagcgag gcggtggcca agtccggcac ctgcgccctg ctccggcga tcaccttcat 240
 ctgggacaag gtcgcaccgt ttatcccaaa ggaggagccc aaggcggagc cggcggcgga 300
 ggccacctnc cgggaagtcg ccgtggagga gaagaaagag gaggccgagc cagctgcagc 360
 gaccgaggcg gcaccggcgc cggcagagac accgtccgag gcggcggtgg tagaggaga 419

<210> 14898
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-027-Q1-K1-D3
 <400> 14898

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 ggcgcctaata ggctaatttc aggaaaaaaaaa tcaagggtga tgtgctgaag tatatgtggc 120
 cttgtgcatg ggcatgtaca gatcatatgt atgatacact aatggagaaa attgcagcat 180
 ctagtcctaa agcaattcac tttctaaaca ataaccacaa gctaaaatgg agtagatcta 240

aattctccaa agaatgcaag gttgattatg tgaacaataa catctcagaa tgcttcaaca 300
 attggattaa agattacaaa gatctcccag tcgctgatct aatggataag attagggaga 360
 aaattatgga gaagatttat acaaggcang agatagccaa tcgaatggaa aggcgtatcc 420
 tac 423

<210> 14899
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-D4
 <400> 14899

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 gtcgtcgtcc gccttcggcg aggcccgcgatgacgac aagacggcgg ggaaggccaa 180
 gccggcggcg gcgtccggga gcccgtaggta cggccccgac cgctgctgt acctgggccc 240
 actgtccggc gagccgccga gctacctgac gggcgagttc ccggcgact acggctggga 300
 caccgcgggg ctgtcggcgg acccgagac gttcgccaag aaccgggagc tggaggtgat 360
 ccactcccgc tgggccatgc tgggcgcgct cggctgcgtc ttcccg 407

<210> 14900
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-D5
 <400> 14900

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 gctgagaccc tgtgatccgg cacgtggcac cggcagataa tacaacgaac acaatctgac 120
 acggattcca acttcctgag ctaaattgcag cgactacgca agcactacaa ggacgccaac 180
 gagcactcga accaactgtt ccaattcaag gccaacctac gacgcgcacg ccaacaccag 240
 atgctgcacc c 251

<210> 14901

<211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-C10

 <400> 14901

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 gggatcttgc agcagcttga ctatggtctg gttgaatgcc aggccctggt tcttgcctcc 180
 acccgtgagc ttgcacagca aattgagaaa gttatgcgcg cacttggtga ctaccttggt 240
 gttaaagtcc atgcatgcgt tggaggaaca tctgttcgtg aggaccaaag gattctcgcc 300
 agtgggtgtgc atgttgctgt tggtagacct ggtcgtgtgt ttgacatgct gcgtagacag 360
 tccctacgcc ctgataacat caagatgttt gttcttgatg aagctgatga aatgctttct 420
 cg 422

<210> 14902
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-027-Q1-K1-A5

 <400> 14902

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 tgcagaagcg gctcgccgcg agcgtcctca agtgtgggaa aggcaaagtc tggcttgacc 120
 ccaatgaagt cagcgagatc tccatggcta actcccgcca gaacatccgg aagttggtta 180
 aggatgggtt tatcatcagg aagcctcaga aggttcactc taggtcccgt gcaagaaggg 240
 cacatgaggg caagcagaag ggaaggcact ctggatatgg caagcgcagg ggtaccaggg 300
 aggctaggct cccaccaag attctgtgga tgaggaggat gcgtgttctg aggcgctgc 360
 tccgcaagta ccgtgaggcc aagaagatcg acaagcacat gtatcatgac atgtacatga 420
 agg 423

<210> 14903
 <211> 342
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A6

<400> 14903

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ctgcataagc ggctcgccgc gagcgtcctc aagtgtggga aaggcaaagt ctggcttgac 120
cccaatgaag tcagcgagat ctccatggct aactccagcc agaacatccg gaagttgatt 180
aaggatgggt ttatcatcac gaagcctcag aaggttcact ctaggtcccg tgcaagaagg 240
gcacatgagg ccaatcaciaa gggaaggcac tctggatatg gcaagcgcaa gggtagcagg 300
gacgctaggg ttcccaccaa gattctgtgg atgaggagga tg 342

<210> 14904

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A7

<400> 14904

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ggaacctgta ctatcggttg gtacattgaa cgtgaccctt ttacacccg tggtagtgta 120
tcaagttggg acagagtgca ctctcgact tcaacgcaac ccagctgtgt ccagggacct 180
tggttctatac tgtaacttct acgaagtaat cggctcagat cagagtaacc ataaacagtc 240
atcttatgga ctatctactc taattatcat ggaggaattt tcttaactcc acttataatc 300
ttaatagtat acgcttgat ttacatatca ctacgtgttt ataataaac caaacacatc 360
tcagttatga ttcatac 377

<210> 14905

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-A8

<400> 14905

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gccagatgta cgatgaaatg attgaatcgg agagcgtcac cgtttgtgtg gattatcaag 120
tcaggcaa at aacggagtag tatgtctgat cgctaaatcg gctgtggtgc atatgtgttg 180
ctctatagcg acgttaggga agggttcctc tctttttcct ttgtatgata gtatgttgct 240
catgatgtag tgtgaaaaga tatatcctat ttgtgtggtg gaacaaataa tgcgtagaat 300
actgattgga atgccttgct ataagggtgct ttatttgtca gaatcccaat ntaattatga 360
tggatatagtt atgctagaga gtataaatta agtacattct agttgtattg acatg 415

<210> 14906

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-A9

<400> 14906

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atgatgctgg tgtttgcaaa aaattgccaa gtactacagg tccctttgcc ctggataatg 120
ggttgagaaa tggaacgagc agaaggagca tgggacgttt tcaggacctn tctgaatgta 180
ccgaccgaga ccttcagttg gaccagtcaa caagttggcc aggcagtcct actgttccat 240
tctgcattcc tactttcaga atcgtaa atg ccttttgtcc cttgctcttt aaccagtcac 300
cacaaaactg ttagtgatgc ctctcgatg cagctcta at aatttggcta cagttgcccc 360
acatgcagac ttgttttggg tgt 383

<210> 14907

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-B1

<400> 14907

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tggcccttgt cgtagctgct atgggtctgtg tcatgtacac cacctcggca caagcaggta 120
aggctgtgtt tggaagtgtg gttgcagttt tgaaacaata ctgtagtggt tagtgatact 180

atagtattgt aactcaaaag gtgtttggtt tgtacaggta aaacatagtt ttaaataatta 240
 tgggtttacct aaaaccatgg tatttttggga attttcgaaa ctccactcat catcttagtg 300
 ttcttttctt ctctttacaa attactttgt ttttctaata gaaccaaaca gatctcgggt 360
 ttgagtaata ctgtagttnt attacaataa tataataccg tagtatttat gtcatgtata 420
 attct 425

<210> 14908

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B10

<400> 14908

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 acccgcccg gcgccagatg catacgacca ggaggtcagc gcccgcgct agcactagcc 120
 gcatgcagcc tgggtggttag cacctcaact cactctagcc tccagcctgc acctacaagg 180
 gcccacagg cagcgccctt gcctggtagc cagccacagt cggctaggcg gtcaacgccc 240
 ttgcccgcg cccatgccac acaccggcat ccggccagcc actgcttcac tgtgctccag 300
 tagatggtgt gacgccccca tccctcgctc tcgctcttcc tggctctgat ctgatccacc 360
 ttctgcgtta ggctcgattg cttaccggcc atggtgcagt ccac 405

<210> 14909

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B2

<400> 14909

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 tgcgtctggt ggtggtgaag gggagaaatt cgtgagatct gttccggatc aggcgtgcga 180
 gctcgggaat caggggtttc acacatagct tcgtcgattt gaatttgatg tactaatgga 240
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ctacagcatt gaggacgttc gacctgccgg aggcgtgaag aagttccagt ctgctgctta 360
ctccaactgc gcgaagaagc catcctgata tcccttttgg cttcctcatt ctagta 416

<210> 14910
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B3

<400> 14910

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tgcctctggt ggtaatgaag gggacaaatt cgagacatct cttccggatc aagcgttcca 180
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ctacagcatt gacgacactc gacactgccg gaggcgtgaa gaactcccag tcatgctgct 360
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<210> 14911
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B4

<400> 14911

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ggtaattaaa gggacaaatt cgagacaaca ctgccggatc aagcgagcca actctagaat 120
cactcattac acacatagct tggacaaata gaacataatg tactaaagga ttctaaagct 180
agcaccaagt ctaacatgaa acgttccaag atgcatgaat cttctcatgg ctacagcatt 240
g 241

<210> 14912
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B7

<400> 14912

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aggggaaaaa aaggagagag aacacacaca cacaaccccc aatcccctgc ggcggcgatg 120
gaccggtcat cggcgggctc cggcgggaac tccctcccgt ccgtcggccc cgacgggcag 180
aagcggcgcg tgtgtacttt ctacgacccg gatgtgggca actactacta cgggcagggc 240
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ctcaaccaga tgcaagtgtc ccgccccaac cgggcccgcg accgcgacct ctgccgtttc 360
cacgccgacg actacatcaa cttcctgcgc tccgtcacgc cg 402

<210> 14913

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B8

<400> 14913

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cctcctccac aggccgaccc cggagcgccg ccacactggg ggggcatccc gccgcctatg 120
gcccctcagc atcagtacgc gccaccaccg acccatcagg ccgccgcccc gacggagctg 180
tggcgccagg cgcgctagtc ctacgacccg actgaggccg agtacggaca cgcgcagagg 240
ccgtcccagg ccgcgtat 258

<210> 14914

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-B9

<400> 14914

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aaacgagact agacaaaaga taatacttca acgcattcct gatttagagc tatgttgaag 120
tacatcatcg cgccacttac cgaccaaaaca atgctttctc ccactactct tatagcatac 180

tcagggtctac aacaggcatt tgtatgggcg gtattcacac agagtctcgt aacacccggt 240
cttggcatc 249

<210> 14915
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C1

<400> 14915

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tccccctgctg gcccgttctc agtcccagtg agaggctcca tgaagatcct ggtcgcgggtg 120
aagcgggttg tggactacgc tgtcaaagtg cgcgtgaggc cggacgggag gggcgtggag 180
acggccaacg tgaagatgtc catgaatcca ttctgcgaga tcgccgttga ggaggcgctg 240
cggctccggg aggccggcgt cgccgtgag gtcgtcgccg ccaccgtagg ccctgcccag 300
tccgccgaca cgctccgcac cgcactcgcc atgggcgccg atcgcgccgt ccacgtgctc 360
cacgaccggt accctgcgc 379

<210> 14916
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-G12

<400> 14916

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gtgtgatgga ggctatccta tagaggcatg gcgctacttt gttcaaaatg gtgttgttac 120
ggatgagtgt gatccatact tcgaccggt cggttgcaag catcctggat gcgaacctgc 180
ttatcctaca ccaaagtgtg aaaagaaatg caaggagcag aaccaagttt ggcaggaaaa 240
gaagcatttc agcattgatg cgtacagaat aaattcagat ccacatgaca taatggcaga 300
ggtctacaaa aatggctcctg tagaagttgc tttcacagtt tacgaggatt tcgcacacta 360
caaactctgga gtgtacaagc acatcaccgg tggcattatg ggtggccatg ccgtcaagtt 420

<210> 14917
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-G4

<400> 14917

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 taggtgctat aggactggtc gaacggtacc cttccatacc tcccggatgt cctcaagata 120
 ctactccatg acaagcccta aaacttattc ctaatcctgc ctaatcacca cgcaacctac 180
 gacatactcc attactgacc cta 203

<210> 14918
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-G6

<400> 14918

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 tgctgcagga caagctgtag aaggatttgc gagacagcca gaagcagaag gtaaaataag 180
 aggtacttta ttgcttagtc tagcttttat ggaagcttta acaatttatg gactggttgt 240
 ggcactagcg cttttatttg cgaacccttt tgtttaatcc taaaaaagaa aatgagtcct 300
 ttagattaga tacttttttc tttttt 326

<210> 14919
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-G8

<400> 14919

cccggtcgac tccacgcgtc cgcccagcga ccgtctccac cagcgattcc gctctatcct 60

atccatggcc tccgcttcga ctcgaggctg taggatgcat caaacctac cgctccagac 120
ctcccgggtg 130

<210> 14920
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-G9

<400> 14920

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cttttacatg cataacctca tgaatgcatg taccttctct atgtaaatat atgatctagg 120
tatctgataa agtttgaaca cctttatattt gggtttactag ttaatagcac tatttttact 180
ctgggaatgc catggcatgg attattgccca ttcacaaagt ggtcatttat gtacatagct 240
taggtaattt tttcatgaac tatcttggtt ttcagaaggc ctttgaagca acaatattag 300
aacaagtctt catattttaa ctgcatgtta taggttttca catttctata gggaaaactg 360
gaatatta 368

<210> 14921
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-H10

<400> 14921

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acatgaccgt cggcgggcgc ccggcggggc ggatcgatg ggagctgtac gccaacgagg 120
tgcccaagac cgcggagaac ttccgcgcgc tgtgcacggg cgagaagggc gtgggcaagt 180
ccgggaagcc gctccactac aagggtccca ccttccaccg cgtcatcccc gagttcatgt 240
gccagggcgg cgacttcacc cgcggcaacg gcaccggcgg cgagtccatc tacggcgaga 300
agttccccga cgagaagttc gtgcgcaagc acaccgnccc cgggtgtgctc tccatggcca 360
acgccggggc caacaccaac ggctcccagt tcttcatctg caccgtcgcg accccttg 418

<210> 14922
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-H11

 <400> 14922

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 gatcgatggc ggcccaggct ctccctctccg gccggcagct gctggggccgc cccgtgcagt 120
 cggccgtctc taggtcgtcg gcgaggaagg cgcccttcgt cgtcagggcc agctccagcc 180
 ctccagccaa gcaagggtgcc gacaggcagc tgtggttcgc gtccaagcag tccctctcct 240
 acctcgatgg cacgctgccc ggcgactatg gcttcgacct gctgggcctc tcggaccocgg 300
 agggcacccg nggcttcctc gagcccaagt ggctggccta cggcgagggtg atcaac 356

<210> 14923
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-H12

 <400> 14923

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 gttcttccaa tggacgatga tgaaatctca tccaaagttc ttctagcagt tgaactttgc 120
 taattgaagc tgcaaaagga acttcgatag atcagcatta cgaggcacag cagtgaagc 180
 cccatgttta cttttccac ggcttactcc tcttggcgaa cctccttcac caagagctgc 240
 acatgtagca actgctgttg aaccatggtg gtcattcagg gtggaattgg tccagctggc 300
 ttatccgctg aggaccttca tgtottgatc ttaaacaaca acgaccgcca tggcatagag 360
 tggtaggttca aggtcctggg ccatggtatg gatatgtgat 400

<210> 14924
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-H2

<400> 14924

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tcgtgaccgc tgggctcggc gccgccccag gctagctcga tgattgggtg cgccaagccg 120
ctcgcgggcg cgctgcaggc atgggctcgc ccgccgtctc ccgccggtcg ccgcctcccc 180
ccctcgttct gcgcccctga cacctgccca gctctcacc gtgccgtcga gagcccaggc 240
cagtctcagt ctgacgaacg ccccgcacca cg 272

<210> 14925

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-H5

<400> 14925

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tgcgacgacc gcgaagccga tcgcgctccc gccggcgcca acccgctgcg gctgctgctg 120
ctggaggaca cgcaggcccg cgatccccgc ggaggcggca cgcctcaagg tctccgnctc 180
cgacgggctcg tcggacgtgc cggacttctc ctcgtgcaat tggcttgaaa cccgcaagag 240
aaagcccttc ggtcccaggt tgaattgtag tgcacaagaa gcagtcgaat accagctaga 300
gtccttaagt acaatgatct gccccgacca gattatggga tagagggtcat gtaccggttt 360
gcaggctttg accctttcga gaggtcaact tactttggac gacagtttga tctatgacag 420
ttcgagcgct ttcggcgtct gtttcaccac tcaacctaca 460

<210> 14926

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-H6

<400> 14926

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caggcttcgc cggcaaggca gtgaacgtgc cgtcgtctct cttcggcgag gcccgcgta 120

cgatgcgcaa gacggcggcg aaggcaaagc cggcggcgag ctccggcagc ccgtgggtacg 180
 gccccgaccg cgtgctctac ctgngcccg cgtccggcg gccncgagc tacctgacgg 240
 gcgagttccc gggcgactac ggctgngata ccgcggggct gtcggcggac ccggagacgt 300
 tcgccaagaa ccgggagctg gaagtcaccc actcccgtg ggccatgctg ggcgcgttgg 360
 gctgcgtggt cccgg 375

<210> 14927

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-H7

<400> 14927

cgcggttcgag agaggagtcc ctacgcaagc ctttacattt cctccatcgc tctcgaccac 60
 cgccggctgg ggcgcctagg ctgacccgcc tgtgtccgat gccccacgc gcgccaccgc 120
 gccggcagcc tgctcccgac gggggaggcc ccggcttcgg cgactccgtg cgtgtgctgc 180
 tcgcgctggc cgggctctac gccgtcatgt cgctcctcga ctaccgcgtc atccacatgc 240
 gccacgtcgc gccgctcggc gccgacgcgc cgcgatgaaa cttctccgac ggacgcgtgc 300
 tacatcacct ccgacgcctc gctgttgaca 330

<210> 14928

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-H8

<400> 14928

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 tgatgaagtt accactcacg atgatgtggg agaaaaacag gccttgggtc cagctgttga 120
 tgcttacacc aatatagacc tatgtatctc aaagacaggg aacaatttac gttcaatgag 180
 ctgttggtt caggatccat ccagagcttc ggaaggcctg aaggcagacc ttatagcagt 240
 tttgagcaga attgaaaacc agctcaagga agaagggtta ggttgggtga atgttttgta 300
 cgttcacctc tacatttcaa gcatgaagga atttggattg gccaatgaag tttacgttag 360

ctttattac

369

<210> 14929

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-A10

<400> 14929

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ttgctttgtg tgccgtcgga atcgcgaaat ggcaagctct agttctgcac aaggcgacaca 120

ctagacagac cctgagaagg tgaagctcgt caccgtcctg agcatcgacg gtggcggcgt 180

cagagggatc atgcccgcga ccatacctcg cttactagaa gagaagctgc aagaactgga 240

tggaccggac gctaggatcg acgactactt tgacgtcgtt gccggcacga gcaccggtgg 300

tctcctggcg gcgatgetca cagccactgg cctgcatgac catgacngac gtcgacagcc 360

gctcttcgac gccaaaggatc tggcgcagtt ctacatcgac cactcgccca aaatc 415

<210> 14930

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-027-Q1-K1-A12

<400> 14930

attgcatatt atgtagtagg cactgaatgt aaattccttg gcaattggca ttaactgggt 60

tcttcattat gccattgtac ttctgctttt ctatttaaac attggtgcat tgcattattat 120

gtagtaggca ctgaaagtaa attccttggc aattggcatt aactgttttc ttcattatgc 180

cattgtactt ctgcttttct atttaactgt ttcatgcagt gaggttggca ccagaagagg 240

agtcacacaa gcttactggg tttgtgcata acgctgtcac ttgcatcggg atggaaacaa 300

acataccggt aatgtaaatt tatatttaca ttgcagctgt tgaagcatgt acattgcana 360

gatactacta ttaggttttag atcacaatta atagatttgt ttgtgacata ccgtgttttt 420

tg 422

<210> 14931
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-G11

 <400> 14931

 acatattacc tcactctata tcactatata atctacgcat atgctccaat tctaacacct 60
 atattctggt ttactattta atcgactat ccatactctt gtaatgccat tgcctcaatt 120
 atttccattc acaacatgat catttacata cataatttaa ctcaattctt tcatgaacta 180
 tattactttt aaaaaagcct ttgaaccaac aatattacaa caaagtcttc atacttaaac 240
 ttca 244

<210> 14932
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-E12

 <400> 14932

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 atggagacgc tggccagcgc catgcggcgc gagaaccgcc ggtccaaggc cccgccctcc 120
 tcctctgctt cctccgccct cgctcgggc agggtccctc tcgtcatggc cttectctcc 180
 tgcctcgcct ggctctacgt cgccggccgt ttgtggcagg acgcgcagac ccgggcgatc 240
 ctgtccggcc tctcgagaa gagctctacc agcgtcccga aggtgctctc ggtggaggac 300
 aagcttagga accttgggtg caaggcgatt ggaaggaaaa ttgttgaggc ggagatggac 360
 ctgaccaagg ccaagagcga ggggtacctg tgggggaaca ggact 405

<210> 14933
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-E2

 <400> 14933

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gacgtgcctg gcggtcgaat tccgattcga ttggagtagg gaacgagaag ggaacaaata 120
caccggcacc accaccagac cagacagcac gtgcctccat actatggttt acgccccgtg 180
ccgctcatcg acgcccgcgt ctctctcgcc gatgctccac aagaacctnc gcgcctcctg 240
acccggcttg aatcccttgg ctcccttcgg catgggcaac tactcccggg agccgtttct 300
tcctatcctt tttcttccaa ttccatctct tagtgctttc cgcttccgcc ccgggcggtt 360
tcttcacggy aacccatccc cgggtatttta actcccgtcg gttcaatggg cccgtgcttt 420
ggatctgaat cttgagaacc ttccc 445

<210> 14934
<211> 407
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-E6
<400> 14934

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gacggtgatg tcgtcgtcgg tgccccgcc accgccccag caggagctgg agtcgccctc 120
cgccggcggc gacaaggtcc tggccgcagc gcagcacatc gtcaagtccc tcgccacctc 180
caagaacgcc gctgacgaca tgatccgcat actctccggc ttcgacaacc gcctctcctc 240
catcaccaac gaccacctct tcccctcccc cgaccttacc gncgactccg cctccgagat 300
ctccgccgcc gccgcctcct tcgacgccgc cgaccagctc atccagctct gggacgccac 360
cccggacgcy ctcgtcttcg agggccccga ggacgacatc gcgcagt 407

<210> 14935
<211> 397
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-F10
<400> 14935

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gcttgctctg caccgcccgc tgctcatcca tatcccatgg tgcccagccg agcagcccat 120
 ggaggcttcc caccgccagc cctctctact gatggccgcc gtccctactc catcttacgg 180
 cactgctctc tgccctctcc atggacgagc tcgccctgcc ccccatctcc ttcaccacgc 240
 tgctccctgc ctccctgttg gtccgccata ccctctgtc ctnccaccg tccgcagccc 300
 cgacgtcgtc gcctgtttta gtcattggtga ttcctaacc ctttatttta tttactaat 360
 tcttctaatt cgagcagatt tttatggatg ttgatat 397

<210> 14936
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F12

<400> 14936

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 cggtttagacg aagccgcccg caccatggc ctccggtgag ctgcctgca cctacgccgc 120
 cctcactctc agcgacgagc gcatcgccat caccgccgag aagatcgcca ccatcgtgaa 180
 ggccggccaac atcaaggctg agtcctactg gccggcgctc ttcgctaagc tctggagaa 240
 gcgcagcgtt gaggatctaa tctctccgt gggatctggt ggtggcgctg ctccagttgc 300
 tgcttccgcc ccagctgggg gtgctgcagc tgctgctgcc cctgctgcag aggagaagaa 360
 agaagagccc aaggaggagt ctgatgacga catgggcttc agcctgttcg actga 415

<210> 14937
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F2

<400> 14937

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 atgtgaattt gatgcttctt ttacattttg tcttttctt cactgctata taaaataagt 180
 tgtgaacagt accgcgggtg tgtatatata tattgcagtg acaaataaaa caggacactg 240

ctaactatac tgggtgaatat acgactgtca agattgtatg ctaagtactc cattttctcaa 300
 tgtatcaatg tatatagaag ttaacgtgct tgaggagata aaaaaaaaaa aataaagact 360
 gaaaaaaaaagg gggggccggtt ttaaaggatc c 391

<210> 14938

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F3

<400> 14938

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 gcgcggggcgg ggtggaaccc ctagegcgct cgccgggctcg gtcgccctct cgcgcgcgcg 120
 tgcgtcgctc cgacagcagc tgcagccatg gcgcagccgc tcgtcgtgaa gaaggacgac 180
 gacctcgacg aggaagagta ctactcgcca ttcttgggca tagagaaggg cgccgtgctg 240
 caggaggccc gcgtcttcca cgaccctcag cttgacgctc gtcgatgctg ccaggttatc 300
 accaaactcc tgtacctgct caaccagggg gacaccttta ccaagggtga agctacagaa 360
 gtcttctttg caacaaccaa gctgggtccag tctaaagatg tggggcc 406

<210> 14939

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F5

<400> 14939

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 cgtcgtgaat aaggacgact acctcgacga ggaagagtac tactcgccat tctgagcat 180
 agataagggc gccgtgctgc aagaggcccg cgtcttccac gaccctcagc ttgacactcg 240
 tcgatgctgc catgttatca ccaaactcct gtacctgctc aaccaggggt ccacctttac 300
 caagggtgag gctacagagg tcttctttgc aacaacca 338

<210> 14940
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-F7

 <400> 14940

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 tacacgaaac tcttcctttc gtgaggccga gttcttgccg ggacccaaaa ctctccgaga 180
 agagtgcctc tgctctccac ggtaaattgg gatgcagtgc ggtctgcagt tcagcggaag 240
 gccatcgtgt acagaagcca cacatcggtc acagctacaa agttagcttc actaggacca 300
 gccatcatct gtgtaaaagc ttaaacgaga gaactacaag gcactgcctg catcggttcc 360
 atgttaatgc ttcgcccgat gacgacgact tccgctcatc gcgtaacata gcgatcagtc 420
 tattcaagcg gtacaagaat gtcattgacc gaggaggtgg 460

<210> 14941
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-F8

 <400> 14941

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 tcccctctcg gatctcttcc ctctccgcc tcatcccctc tgcattcttt tctgaggtaa 120
 gcggaggtgg ggaagaatgg ggcgcctcct caccgcggagg cggcggcgcc aggggtgggg 180
 gtgggaacga atggagctcc acctggtcta ccggcctcac caaggaccat ttcgacggat 240
 cctcgccctc cgtcggccgt tctgtccctt ccgagtcagc gcccgctctc cgtgagcggg 300
 cggccattcg cgctatggat gagtgggacg agagggtccg gaaactggac cgtaacaatg 360
 tcaaggcaaa ggcgattgtg gatccatgga ccaaccgatt ccggaaaacc ggtcccctgt 420
 tgaaccaggt ccggaaccgc gcccttcgg 449

<210> 14942
 <211> 398

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-G10
 <400> 14942

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 cggagggccc aatcctatgc atcaataact gtggtttctt tggaagcgct gccaccatga 180
 acatgtgctc caagtgccac aaggagatga taatgaagca ggagcaggcc cagttggctg 240
 cctcctccat cgatagcatt gtcaatggcg gtgataatgg gaaaggacct gcaattgctg 300
 caactgtagg tgtggcagtt cctcaagtcg aggagaagac tatcgccgtg cagcctatgc 360
 atgtcgctga aaccagcgag gctgctgctg ntatcgcg 398

<210> 14943
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-C5
 <400> 14943

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 gccggcacca ctgcagcagc caaaccacgt gacacctccc gcgccgctca accccacagc 120
 atccgctgcc accgccgctc acctccccgg cgctcccgcc tacaaccact gcaagcatga 180
 ggcagccaac cagcgcgggc ggcgacgctg ggttcttgcg cgcggaaccag atcgacctca 240
 agagcctgga cgagcagctc gagcgccacc tcggacatcc cgcggaagcgg gtagttggcc 300
 cagtctctgg gacagggagc cgcgcggcg aaacggccaa gctgggtccg gaagagctga 360
 cgccactgca acg 373

<210> 14944
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-C6

<400> 14944

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gctccgggca acatcttggc ggcaggcggg ctgggtccct tgtggctcgt cgacattgcc 180

aacatgtgcc tcatcctcca cctgatcggg gcataccagg tatacgcctca gcctgtcttc 240

gcttcgggtt agaggtgggc cgcctcacgg tggccagaag ccaagttcat gagcagcgca 300

tacaccgtgt ccgtcagcat cccctcttg cagagaggat cggtcaccgt cgcgccgcac 360

aagctcgtcc tgaggaccgc catagtcggc gcgacgactg cgggtggcgct ggcgataccc 420

ttcttcaacg ccgtgctggg gctcctcggc gcgttcagct tct 463

<210> 14945

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C8

<400> 14945

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aatgcgggat aagctcatta atcttcgggc tgttcgcgca aatggtgatc ttgtcaagac 120

aggctcccgg tctcgaaaaa atgcagctgg gtatgacctt gctcgtttga tcattgggag 180

tgaatgcact ctgggtgtaa ttacagaagt gactctacga cttcaaaagc ttccatctca 240

ttctgtactt gccatgtgca atttcaaac aattaatgat gctcctgatg ttgctattgc 300

aacaatgctt tctgggatac aggtttcaag agtgcaattg 340

<210> 14946

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C9

<400> 14946

cccacgcgtc cgcaaagcta aaacatgaaa atcttggtga gatgttgggt tattgtgtgg 60

atgggaatta tcgtatactt gcttatgaat ttgcaaccat gggttcgctt catgatgttt 120

tacatggaag aaaaggcggt caaggcgcg agcctggccc tgtgcttgac tggatgcaga 180
 ggggtcaaaat tggtattgag gctgcaaaag gtatagaata tctgcatgaa aagggttcagc 240
 cttcaatcat ccacgaggac atcagatcaa gcaatgtact gctgtttgag gatttcaagg 300
 caaaaattgc agacttcaat cttttgaacc aagcaccaga tatggcagct cgtctccatt 360
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<210> 14947
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-D1

<400> 14947
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 gatgttgagt ttagatccat cacagaggat atcagcaaaa gatgcacttg atgcggaata 120
 tttctggact gatcccttac catgcgatcc aaaaagcttg cccaagtatg aggcacgcga 180
 tgaattccag actaagaaaa agcgtcagca acagaggcaa gcagaggaag ctgcaaagcg 240
 tcaaaaactt aaccatcctn caccacattc tcgtttgect tcaactccagc agcctggcca 300
 agcacatnct caaatg 316

<210> 14948
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-D10

<400> 14948
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 gtgctccctc tctcctgcat gcgtgaggat ccagcggact gaccttcccc atgcagctcc 120
 ttcctctcgc tcccgtcca gttctctac gctgcgcgcg ttcctctcgc cagcgtcgtc 180
 ctagaccggg ctgggcgcg cgggtcttg ttggcgcggc ggcgcgacc cctgtggcgc 240
 cagctcactc ccggtgcttc tctccctgct tcaatttttt tccagccatg gtgctcgcgc 300

eggcgctctc gactcctcag tctggcgcgc tgnntttttt tccatgtccc tgtgcgcgag 360
 ctgattcagc ttgtcgggtca tccactgggt ctcggegcctc cttgctc 407

<210> 14949
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-D11
 <400> 14949

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 gcttctctgt cgcttctctg attcttctctg gcctttgccg gagcaaggct aggcgcgagg 120
 agaggggtgct gtgtcagcc agaggtcacg ggcgctacgc gagcgcaactg cctgtggaca 180
 caggagcctc atacatcttg caagaccact gaaacactgg aacattcaca cctcaagag 240
 gttacacttg ataaaacggg ggcgggggtca acgctaataa gtcattcaaaa tgtgtgctgc 300
 actgccggag tatcagggga aaacgtgaa atcatggaaa tcaccttatt gcatgatgaa 360
 tctgatg 367

<210> 14950
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-D12
 <400> 14950

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 tacggcactc ccagggtactg gatgcagacg ctgttacgcg agtctagtgg tgctatgttc 180
 catgcaacga caatcagctc cagctactca ggttcacttg cagcgtctgc gattacctgg 240
 caggactgcg agaacagctt cctaagagta aaggtcataa acttcgggtc agatgctgtg 300
 accctgacaa tctgcacaag tgggctccag gccagtatca acgctctggg atcaaccgcc 360
 actgttctca catcagcaga tgtgatggat gataactcct tcagcaaccc aaccaagttg 420
 t 421

<210> 14951
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D2

<400> 14951

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 ctcccgggct cgaaagagtg cagctgggta tgaccttgcg cgtttgatca ttgcgagtga 180
 aggaactttg ggtgtaatta cagaagtgcg ttacgactg caaaagcttc catctcattc 240
 tgtagtgtga atgtgcaatt tcaaaacaat taacgatgct gctgatgttg ctattgcaac 300
 attgctttct ggaatacagg ttccaaaagt ggaatggttg gacaaggctc aaataaaggc 360
 attaattttg gcaaatggca aaatttggcc tgaagggcca acctggaggt t 411

<210> 14952
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D3

<400> 14952

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 ttgtgctccc gcgctcgctc gctcgcgtt ttctgcctgc tccacctcg ccccgctccc 180
 atcgccgat cggtcggagg ccgctcgctc gcttgagaga tgctcttctg tgacggcagc 240
 ggcgatggaa acggggggcg tgccaccagc ctctgccccg ccgcgcgccg tgccagtgat 300
 gaagggggac gga 313

<210> 14953
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D4

<400> 14953

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gggtggaagt acttaaactg ggactcgggc taggaacagg tgatgttcta cctaggttga 120
ttaaggattg aatgcgtatg taggcgtgct gatcgaggac cctttaactg gtcacatgcc 180
tcgtcatggg taagccttgc ctcatgcaga ctaaggccag aataagataa cacggaatgg 240
gcgtggagcg gtggcgagag tagcgtgtac cctccgtggc aagaggctgg acggtgatgt 300
atct 304

<210> 14954

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D5

<400> 14954

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attgccatcg gcatggttcc tgtcctgaaa gattttgttt tcggggctga tgcgccgctc 120
tcgttcttca ccgacagttt ggagatccta gccgctgctg tggttccgtc ggtgatgttg 180
attctcggag gcatgctcgc ggaaggccca aaagacaacg ccttgggcat gaggactatc 240
atcggatatca ttgtggccag gctcttgggt ctcccatgca ttggcatcgg tgttgtgacc 300
ctggcagaca cgttgcatct ggttctggga ggaaaaccat atggaccggt ttgggctttt 360
cctgcagtac tcccaccga gtgctatcct gcttggagcg atcgccagtc tcagaggcta 420
tggcgtcaag gaagcatccg cccttctggt ctggcagcat a 461

<210> 14955

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D8

<400> 14955

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aagaggctga aagggcggcg gagagagaaa ggctataaga gcgagctggg tccctcgagg 120

atgccatcaa gaaaccgcgt ggaggggagg gcgatgagat gagggatgct ggccgcggtg 180
atggactact ttagctcctg ctggggcccg cgatcggtg cggggcaccg ggaaaagggc 240
tccgacgccg ctggccggca ggacggtctc ctctggtaca aggacgtcgg gcagctcgtc 300
actggggagt tctccatggc cgtggtgcag gcccaaccagc tgctcgagga ccagagccaa 360
gtggagtcgg gatcgtcttc cctggctgac acgggcccgc agggcacctt cgtcggcgtc 420
tatgat 426

<210> 14956

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-E10

<400> 14956

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ctccccgccg tcgagtcgga ggtcgccgcc tcgtccgccc aggaccgcgc caaggacatc 120
ctcgtcgtcg tctccggcct cctcttcggc ttcggctgct gcgccctcac cgtcgcgtcc 180
atgtacctcg tatggtcgtt cctcgcttc acctgcgcct ccggatacga cgacgacgtc 240
tacagcgacg acgaggaccg gctgttcgac tccgagagcc ccaagaaggc cggctacgtc 300
atcatccacg acgctgacga gtacggcgcc ggtaagaact agggctgggg atccgtcttc 360
ggtctcgccg gcgggtcagc agaaggattt tcgtaataac atttgcataa ttgcttgga 420
ttg 423

<210> 14957

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C4

<400> 14957

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cccgagtcgg ttcctcctcc tctccttgcc cccgcccctc gccggcgcggt ggggaaagga 120
gggccacatc atggtctgca agatcgccga gaagtacctg tcggagaagg cggcggcgcc 180

ggtgcaggcg ctgctgccgg agtcggcggg cggtgagctg tcgacggtgt gcccgtagggc 240
 ggaccatgtg cgctggcact accactgggc cagcccgtct cactacgcca acacccccca 300
 agtctgcaac ttcaagtatt ctcgggactg ccacaattct cgtggccagc aaggggaatgt 360
 gcgtcgtcgg ggctatcaac aactacac 388

<210> 14958

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A6

<400> 14958

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 gatgcatcga tcgctagcta gctgactgac catggcgctc atgtgctctg ccgccatcac 120
 cgcccgttcc ttcacggccg ggcccgtctg tgcagtggtc accacgaggt cctttaccgc 180
 gcgtgcctct ctacgcaagg ccaactgccac cgccgctacg gccgatgccg acagcgtact 240
 gcttgccggg cgcggcgcca tggcccagga ggagctgctg ggcagcaacg acggctgact 300
 agtcttcgag c 311

<210> 14959

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-A7

<400> 14959

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 cgcgattcgg gcagatttgg tccaacaatt ctttgtttgg ccgcttgggc tccggtctct 120
 cgattcttcg tagcttggtg ggagggcgcc ggatccagcg gccatcatgg ttgtcgacac 180
 ggtcagcgcg agcacctcca taatagcccc ccacctgttc gaccacaggt ccaggggcgc 240
 cggcgcttcc caccaccacc tccgccggac gttccatgtc gtcgcctgcc gacacctgcc 300
 caccgncttc gccggccgnc gcctcgtggc ccgggtcacg aggcagccgt cgtcgcgcct 360

cgccgattgg ccggtcaggg cgctggctat gggggtcacg aaggaggtca gggccagccc 420
tcgcagggag taccggggga tccccggnga tgggtggcgac atggggga 468

<210> 14960
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A8

<400> 14960

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caggctccag acgcagtcgg ccgccgcaga ccgggagtag ccgacgcgcc gtcactgaat 120
cctcagatca cggctagccg taatcacgac actctgctga ctcccggcga gcagtgtaac 180
attttccttc agccatgggc aaggagaaga ctcacatcaa cattgtggtc attggacatg 240
tcgactctgg caagtcgacc accactggcc acctgatcta caagctcggc ggtattgaca 300
agcgtgtgat tgagaggttc gagaaagagg ccgcggagat gaacaagcgg tcattcaagt 360
atgcctgggt gcttgacaag ctcaa 385

<210> 14961
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-A9

<400> 14961

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gagaaactac atacatgcta gcgaggttat tttatccatc ctgctggaca aggacaggag 120
cagctcgaca atcctctcgc tgaaaaaggc tggctctgag atcactgaac ttttaacgca 180
atgctctatc ggcattgctg gaactggact ggctattctc ctgtcagtta tgtgcaagat 240
gtctaattggc atgaggactc cttttgcttc tgcccgaactg cttagcacca gcgtcggatt 300
cggactcttc tggctatcct gggcagtcga tggattgctg gacaccatcg ncagcatttt 360
cagaagccga aagtgcataa atatcgagga tga 393

<210> 14962
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-B1

 <400> 14962

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 gttgatcggg aacggggccag tgggtgtacct caacaagggtg accgatgggt gcgtcgggccg 120
 cgtcgccgcc aagctcgagt ccatggagcc ctgctccagc gtcaaggata ggattggcta 180
 cagcatgata acggacgcag aggagaaagg gctgattact ccaggcgtga gtgttctgat 240
 tgaaccaact agcggcaaca caggcattgg actggccttt atggctgctg ccaaaggctt 300
 acaacttaca cttacaatgc ctggcttcat taaccttgag aagaagatca tattgaaagg 360
 ttttggggc 369

<210> 14963
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-B10

 <400> 14963

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 cgggttcggg ttgggcggca aggcgaagcc tgctccgaag aagggtggcg agacatcgac 180
 ctctctgac cggccgctgt ggttccccgg cgcctggcg cccgactacc tggacggctc 240
 gctggtcggc gactacgggt tcgaccgtt cggctctcggg aagcccggtg agtacctgca 300
 gttcgagttg gactcgctgg accagaacct ggccaagaat gaggcggcg gcacatcgg 360
 cacccggttc ggtccttcg aagtcaagtc caccctgtg cagccctaca gcgaggtgtt 420
 cggc 424

<210> 14964
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-026-Q1-K1-B12

<400> 14964

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ggccaagctc aaacaacaat gtgggggaca ggttacttca aaaatggaag gcatgggtac 120
tgaccttact gtcgctagag atcatcaaac taagtttgag gagtttgtag ctggacatcc 180
agagttgaat cctgggatag acttagctgt tactgttttg acaacgggat tctggccaag 240
ctacaaaact ttgacataa accttctctgc cgagatggtg aaatgtgtag aggttttcaa 300
ggagttctat caaacaagaa caaagcacag gaagctgaca tggattttatt ccttggggaac 360
ctgcaacatc aatgctaagt ttgatgctaa acctattgaa cttatttnnt acacatatc 419

<210> 14965
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-B4

<400> 14965

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tgagcgatgg cggcccaggc tctcctctcc ggccggcagc tgctgggccc ccccgctgcag 120
tcggccgtct ctaggtcgtc ggcgaggaag gcgcccttcg tcgtcagggc cagctccagc 180
cctccagcca agcaagggtgc cgacaggcag ctgtggttcg cgtccaagca gtccctctcc 240
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gaaggcaccg ggggcttcat cgagcccaag tggctggcct atgggcaggt gatcaacggc 360
cggtagccca tgctgggcgc ggtgggcgcc atcggcc 397

<210> 14966
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-B6

<400> 14966

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ctgaggcgat gggcgcccag gctctcctgt ccggcctgca actgctgtgc cgccccgtgc 120
agtcggccgt ctctaggctg tcagctagga aggcgccctt cgctgctcagg gccagctcca 180
gccctccagc caagcaaggt gccgacaggc agctgtgggt cgcgccaag cagtcctctt 240
cctacctga tggcacactg cccggcgact atggcttcga cccgctgggc ctctctgacc 300
cggacggcac ctatggcttc atctagccca tgtgactggc ctatggctag gtgatcaa 358

<210> 14967

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-B7

<400> 14967

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caacgccttc ggcaatacct tcagggacta cgacgcggag tcggagcgga agcagacggt 180
agaggagtgc taccgggtga accacgtgag gcagacgcac gagttcgtgg cgcggatgctg 240
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gaacgagtgc atcgacgaca ggcacccgga cctggacatg cccagatcg agcacctgct 360
gcagaccgcc gaggccatcc gcaaggacta cccgacgag gactggctcc accttaccgg 420
actcatccac gacctgggca aggtgctg 448

<210> 14968

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C10

<400> 14968

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tacggatttc tcttagcgtc gcgttctttg gggttctggc gttcgtgctt ggtgtcatcg 180

ccgaaaacaa aaagcctgct tccgggactc ctatcctagg aaaggatgtc gtcacatctgca 240
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 ctgccatcgt aggccatggt gccatcttct ttccatactc gggcaagtca gttcctcgtg 360
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<210> 14969

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A5

<400> 14969

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 catagggggg gactggcaat gagtgaaccc aactctggct ctgatgttgt cagtatgaag 120
 tgcaaagctg agaaagtgga cggcggctat gtccttaatg ggaataagat gtggtgcacc 180
 aatgggccgt ctgctcagac gctggttgtt tatgcaaaaa cagatctaac tgccgggatca 240
 aaaggaataa ctgcattcat aatcgagaaa gggatgcccg gggttcagtac tgctcagaaa 300
 ttggacaaac ttggcatgat aggaagcgac acatgtgaac ttgtttttga gaactgcttt 360
 gtgccacgcg agaatgtcct cgggtgaaaaa ggcaaagggtg tttatgtcat gatgtcaggg 420
 cttgatctgg aaaggct 437

<210> 14970

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H12

<400> 14970

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 ggagcacggc tacttcacgc gttcgcagcg acgcgcgggt gtgatggatc ccaatgtcct 120
 gttcatcgtt gatgagatgg agaagtttgc atctatggat gtcaagtggg agaagcgctt 180
 gtcggagctg gtggcagcta aggaggagcg cctgatctcc ctgcagcgcg tcagcgggga 240
 gttggaagca tggtagccca cgggtggatgt agcgatggat gataccaagt tgcagctccg 300

caaggtgaat ctgcagttgg atcatgccgt tctggaggcg gctggcggag attctagtct 360
gttggggaaa ccggat 376

<210> 14971
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H2

<400> 14971

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gttcgatcgt gaccgtgacg caggaagcta taagctagcc aagacaggaa taataatggc 120
ggcgtcgacg gtggcgagcc tctctgtccc ggtgacgacg acgaccttcg cggcggcggg 180
cggcggcgac gtgctgatcg tcgtcccag gagggcgggc gccaaagcgcg tcgtctgggt 240
ccccgcggcg gcgcgccgcg gcggcgggcg ggtggtcgcc gtgcggtcca gcgggcgggc 300
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cgcgacgac cagaatggcg ac 382

<210> 14972
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H3

<400> 14972

gtcgctcgt gacgtctgtc caagaacact cgctccccac ctgttcgctg cttcttggtc 60
ttgccaatct gtccttctt ctagctagat cttggatgga gctggggatg acgatggagg 120
tagcgaagat catcgaggta tgtagagtac gcggctgcta gttagttcac caggccagca 180
agcgagctcc agcttcgtcc gatcgataga tgcgagctgt agcagcgtgg cagccattca 240
tcagttgtca gatcttagat tcccccatc cccgtacta gttggtgggt agcaaatecc 300
accaagcagg aagcagccgc gagcgagcca tggccatgga tcccgttctg aaagtggccc 360
tgggctcggc ggcgttcgcc gtgttctggg tgctggcggg gttcccggcg gtgccgttcc 420
tgcccatcgg gcgcacg 437

<210> 14973
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-H4

 <400> 14973

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 cgtcatcgtc cgctctgacc gagtccgcgc tgcggcaaag cggcggcgaa gacgaagacg 120
 ccgagctcga cgaggcgctcc accaccacca ccaccacggc aagccagcgt caacaccaag 180
 acgacgacca ccaccagcag cagcaggagt gctacgcctc ggactacttc tggaacgaca 240
 tcgcggcggc ggaggcggcc atctacatgt tgatcgacgg cggttggaca ggaggggtccg 300
 gccccggcca tcccgcgcgc gagecgcctt cgtegcgcgc gtgggagtag tgctctgatt 360
 actcgctctg gaggatcgac gacgacgagt acttcgagaa gatgctcgna ctctncttct 420
 gattcaatta tccagccatc acacgcc 447

<210> 14974
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-H7

 <400> 14974

gccgtctccc ttttgcgtga gcaaagaaag agagcgagaa gcagtcgcca tgtctggcat 60
 catccacaag atcgaggaga agctccacat ggggggcgac cacaagaata aggaggagga 120
 gcaccacaag aaggccgagg agcaccacaa gaaggaggag ggggagcacc acaagaagga 180
 cggcggggag cacaaggaag gcatcgtgga gaagatcaag gacaagatca ccggcgagca 240
 cggcgacaag tccggcgacc acaaggagaa gaaggacaag aagaagaaag gatagaagaa 300
 gcacggggag ggccacgacc acgacggggg gcacagtagc agcagcagcg acagcgactg 360
 agatctggtg tcgcagcaca ggtgcaacac aagtatgctt gcttgatgga ggattcatac 420
 cagctgatg 429

<210> 14975
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-H8

 <400> 14975

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 ttttgtttca aatatgccag gagatgttcc ccgagtatgt ggtcagttgg ctgtctccag 120
 agctttttgga gacaggaatc taaaatcact attgagatca gagcctgata taaaagtcga 180
 agacatagat cacactgccg agctacttgt tcttgcgagt gacggtcttt ggaaggtgat 240
 gaacaatcaa gaggttgctg atttggccaa aaggtacaag gatccctatg ctgctgccaa 300
 gcaattaacc gtcgaagcac aaaaaagaga tagtaaggat gatatatcat gcatcgttgt 360
 tcggttcaag gtgtaaatcg gtctcgaaag attttcatcg agagcaaaaa ccagtgaata 420
 ggctgcctga cgatggtagt 440

<210> 14976
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-H9

 <400> 14976

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 caccgtcaga tgttccagca cgtcgcccaa cgtgtcccag ggcgcgccgg cgccggcgcc 180
 gcccaagccg caaatcgagc tcgagttcgt cgggccgaag cccggtgccg acggctcctt 240
 cccggtggac cgggcggagg cgaccagcgg cgagaagctc ctccgtgacg tcatgaacga 300
 gaacaagatc gagctctacg ccgcatacgg caaggtgatg aactgcggtg gcngcggaag 360
 ttgcggcact tgcacgtcgc agataatcga tggaaaggag cttctgaatg 410

<210> 14977
 <211> 407
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-A10

<400> 14977

cccgctectcc tcccaggcgc gaccgcgcga gacgcctgcc cgagtgtaac cgtcgccgctc 60

gagcccccat ccgcattgcg tttttcgggc gcggttcaggc gggacgcatg atgcgctgct 120

agcgtgttca ggccttcaaa acgcagcaca caccgggtccg ttgcttgccg gccacccgct 180

ggcgggcgcgc ggatcctctc ccaccgcgta tttttccggtt tggatccccg agtcgggagct 240

cgatcagatc ggtgcctctg cctgcgtgcg tctgctctgg tctactatat atgaccacgg 300

gcgcgggctg acgtccatc gccacacgt cgaagcangt gattggcgat ccttgtccgt 360

cctcgctcgc tagctgatcg acatggccga cgacgacca agaacga 407

<210> 14978

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-A11

<400> 14978

ccgcggaagg gaaaaggaca aaangaaaac agagagaggg gagagtggga gacggtcggg 60

gacggggggcc tcactcctcc acactctcag tcgtcttcca gtcccagcgc tttcttggat 120

cgcgaggaaa ccactcgggg agtttgcagt tgcagagaac tgtatcggcc gaagtgggtg 180

cacggtgtgt tggccttggc catgcgccac ggcagggaac agagacgagc agcagggagg 240

cagcaatgga ggcgctcatt gaccctgctc tcgctgtaaa gatagtcccg cggtgccctc 300

cgaattccac ttgatccaac tctcgacatg aagcggccac gcggcgctac tccctccctg 360

tctgcgatgc ccaatcatca ggaagatgac ggctacggcg tggt 404

<210> 14979

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-A3

<400> 14979

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tggccgcgat tggggagaag gaggggtagt tctacgtgcc gagggaccgc aagtaccgca 120

acggcgacag gccaaccgg gtgacggcgt cgggctactg gaaggccacg ggcgccgacc 180

gcaccatcaa ggccgacaac agccgnccca tcgggctcaa gaagacgctc gtctttctact 240

cgggcaaggc gccaagggc gtncgcagca gctggatcat gaacgagtac cgctcccgc 300

cgcgcgacac cgaccgttac cacaagaccg aaatatacctt ttgccgcgtg tacaagcgca 360

cgggtatcga caacggcggc cacgggcatac 390

<210> 14980

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-A4

<400> 14980

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ggagcttgcg gagcaaatcc agagtgaatt tgctatgaag atatcaaatt atgcaaacat 120

tgtttctctta gcgttgaagg tatacgttac aataaaaagt ggatcaattg ctatagctgc 180

ctcaacactg gattcactgc ttgatctcat ggctgggtgg atccttttgg tccacacatct 240

gtcaatgaag agcatcaatg tctacaagta cccatttggc aaactgaggg tacagcctgt 300

aggcattatc atcttcgctg ctgtcatggc cacttttaggc tttcaaagta tntattcaag 360

ctgttgaaaa agctggtaag tgaatgaggg ttcagaataa ctgaaccaa gtgcaaataa 420

tgggtggctat attccaatca tgatec 445

<210> 14981

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-025-Q1-K1-H11

<400> 14981

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ggcagctgct gggccgcccc gtgcagtcgg cegtctctag gtcgtcggcg aggaaggcgc 120
ccttcgtcgt cagggccagc tccagccctc cagccaagca aggtgccgac aggcagctgt 180
ggttcgcgtc caagcagtc ctctcctacc tcgatggcac gctgcccggc gactatggct 240
tcgacccgct gggcctctcg gaccggagg gcaccggggg cttcatcgag cccaagtggc 300
tggcctacgg cgaggtgatc aacggccgct acgccatgcn tggcgcggtg ggcgccatcg 360
ncccgagat cttcggcaag atgggca 387

<210> 14982

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F3

<400> 14982

cctgaaggca tactgtgaga agttcatagc atccaaagtg aatgacgaca atgctaggac 60
ccactacgcc ttcgcgcacc gtcacagcgc aaagcagctg ctggaggcct cgctttctgt 120
gctcatggcc aacatgtcta cgctatcgga tcgtgaagaa tacaaggagc ttgtggagaa 180
ggacccaagg cttgttgttg agatttatga agcatatctc aaccggcaag tcaacactgc 240
agctgggaag gacacaaatt gtagcaacag gaagtgataa ttacgaacag aactcgtgca 300
gtaacaatat tctaactatg catttatgca ttcac 335

<210> 14983

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F4

<400> 14983

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cgcgtcgtc tgccgcgcc gctgcttgct cctctgctgc gcgtccacc tcgtctccat 120
ggccgagcgc tccttcttct ccacgcgttc agccagcgc tgatgcctct ccctttctaa 180
cagcgcacc actcggagct cgtcggcatg gtctgccgcg gtgctcgccc cagcctcgac 240

tcccgtccgg gccttgctgt cgtgctgcta tgggtgcctag gtccctggcgc gctcgtcgtc 300
 ggctcggcat ctctcgcgc tcgcccctgc ctctcgtc gggtacttgt gctcgcgtcg 360
 acctcagtea ccggggccga ct 382

<210> 14984
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-025-Q1-K1-F5
 <400> 14984

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 tgatttggtt tccttgaaga gtgttgtaag tgataacata tccagagatc gtggactgag 120
 ggcaactctct gagatcattg gtacactttg tatacttttc acactatcaa ctgagctagc 180
 tccagttctt gggctcctta tgggtgtccg ctccgtgcta gttgctatct tcaagaggct 240
 aactgttccc actttttaa atctatggaat cgtgcaagca cgcataatcag actgtgcac 300
 aaagacattt tcagctattc gtactgttcg atcatttggt ggtgaaaaac gacaaatttc 360
 tttgtttgac aatttggcac atgcttacca aaataatggc aaaaaacttg g 411

<210> 14985
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-F7
 <400> 14985

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 gctctgtata tttaaccaat cctcagctct catcttccaa aagttctcac ctgcgcgcac 120
 ggtcaccggt cggtcaccat gatctcacgg ccgctatgcg cgctgagaga gaaaaatcga 180
 gtggaggaga gagaaaattg ggggctgcat gagttcatcc gaagccgac cttggaccct 240
 gctataccta ttgcttagct tccgggctg tacaccatcg agcgccaaga gcaccgtgcc 300
 ggcgtggccg atatcccca ggcaggaact tcaccttcga actgaccacg ggcgatggac 360

ctcggcgcca ggacacgtgt catctgnaaa gcaagt 396

<210> 14986

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G1

<400> 14986

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ccgtcacggc gctccccagg aatgggcagc gggcgctcgtc ctcttccctc ggcggcaaga 120
cgctgctgag acaggccgag gcggcccggc cgtcgttcgc cgtgcgcgcc gcggcggacc 180
ccaacaggcc gatctggttc cccggcagca cccctccgcc gtggctcgac ggcagccttc 240
ccggcgactt cggctttgat ccctggggcc tcggatctga cccggagagc ctgcgggtgga 300
acgtgcaggc ggagctggtg cactgccggt gggcgatgct cggcgcggcg ggcattctca 360
tcccggagtt cctgaccaag atcggcgtcc tcaacacgcc cttctggtac ac 412

<210> 14987

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G10

<400> 14987

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tcggagaagc ctccccaagc ttgaatcgc tatgcagccc gtcaaggtgt acgccgaccg 120
gcggtcgcaa ccctcccag ctgtcatcat cttctgcagg gtgaaccaga tcgatttcga 180
ggaggtcacg gtggatctgt tcaagtctca gcacctcaca cccgaattca aaaaaataaa 240
cccaatggga caggtacctg caattgttga tggaagattc aaactatttg aaagtcatgc 300
gattttgagg tatcttgcac cggttttccc tggagtagct gaccactggt atccttctga 360
cttgttcacc agagccaaaa ttgagtcaat cttggattgg catcactc 408

<210> 14988

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G11

<400> 14988

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gcttgattgg gtgtcatctc ttttagctgc aactgcagct ggctgtgac atggcatcgc 120

tgagtgetga cctcttttac gacataactca agcgtctcga tgctgcagct ctggcaagag 180

caggctgtgc ctgcgctgat tttcgtgcc tatcaaata agaggatctg tgggaaaatg 240

cctgcacatc tctgtggcca tcaatgagac gagatgacgt taggagctta attgcctctg 300

ctggtgggtt caggaagttc tatgcggatt gtttcacact tatactgaac aaggacgtcc 360

ctgtgggttc agccaatgaa actaacttct ttgccgaaga atgggctgag tctgactact 420

acta 424

<210> 14989

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G12

<400> 14989

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tccagttcgc acaaattgtg aagatgcagg cttctcatct acgaaaaggc tgtctgagaa 120

gcccattcagt gtaaacggag aagaggatcg tgaccattgt catcaggagt catctaagga 180

accgagttgc ggagttgagc aggatggtca aggttactca tgcatgaag aggctgtgaa 240

aaagccagtt tgtatggata gccacgatgc ccaaagttca gatattctctg ctgccactat 300

tgcttctggg ggaa 314

<210> 14990

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-G2

<400> 14990

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 attcaatgag caaggggaac tcagcaagta tgtgaatggt aaatttccat caagactatg 180
 ctccctggga cttacttaca tgggaacaaa tgaaatgccc attatgttcc ctttttctgc 240
 aatactaaag aagctggatt tgcaatacac tttcctcacc actgaggacc attgccagct 300
 cattgcaaaa tgcccgaact tactagttct cgcggtgagg aatgtgattg gagatagagg 360
 attaggagtt gttgcggata cgtgcaagaa g 391

<210> 14991
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-025-Q1-K1-G3
 <400> 14991

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 aatagtgggg ctgttggtac aattcaggag agtttgggta gtcctgatga tattactggt 120
 gaaataaagg ggacatcttc acaggtgcaa gctgcacagc agctcatcca ggactcgttg 180
 gctgcacacc gagaacctgt caggagcagt tatgtggggg caggattaga ttcagtatat 240
 aggtccagct actcacaata tggcagctca atctatccct cgatcatcact gccgtcttat 300
 tctagcatcg atgatgtag tagatacccg tcttcaggcc ttggtgggta tggttcgagt 360
 taccggtact aatagcaatt tgtcctcggg cttgaatgct tgatggcacc agtgatcatt 420
 gtatccc 427

<210> 14992
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-G5
 <400> 14992

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 acacatgatg agactggagt agaggccgaa ggtaggagcc gacgggttga aatccccccc 120

gcagtcgcag cgctcgtgatg gtacgaatgt tgcggctgga gtagagaccg gtgtgtgctc 180
gaagaagacg atagccccta gatgccgagg tagccgaagt cgaggtggtc gcggtcggaa 240
gacgcgcagc aaaagcctga tcttcgggag ggtcgacgtt cgagcgtcaa cgatcagcag 300
ggcgacacaa caaaagagca ccggcaggcc gaccttcctg cttcttcgat cgtccaggcg 360
tcaaggagcc ccgccaggga ggccgacggc agcgcacgca tctacgccgg tcanggtgtc 420
cgcgcccggt g 431

<210> 14993
<211> 399
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-025-Q1-K1-G6
<400> 14993

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tcggggcccc ggccttcgcc taccggtcgc ccaaggctcc ctccgccacc gccctccgc 120
gtgccgcgc cttccctgca atcgccgtcg cggggcgcc cctgcgcccg cgcgcgcgc 180
cgaggccggt ggcggccccg gccggggcg aggagcggga gacgatactg ctccccgggt 240
gcgactacaa ccaactggctg atcgtcatgg agttcccaa ggaccccgcg cccaccgcg 300
agcagatgat cgacacctac ctcaacacac tcgccaccgt cctcggcagc atggaggaag 360
ccaagaagaa catgtacgca ttcagcacga ccacctaca 399

<210> 14994
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-025-Q1-K1-G9
<400> 14994

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cagggacgcg cgcctgtcgc acaactgcct gtaccgcgc gtggacatct acctcaagac 120
acacccgggg ctggacgaga tcgagcggga gaaggtgtgc agcgtcatgg acccgctcag 180
gctgtcgtac caggcgcgga tgcacgcgtc gcagaacaag cggctgccgc tgcaggccgt 240

gctcagcgtg ctctactacg accagctgaa gatccgtagc gcggacggca gcggcggcac 300
 ggaggaaaagg tgggagacac agtcggccgc cggaaggcc cgtgcgagg cgcgggcgga 360
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<210> 14995

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F2

<400> 14995

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 ctctcttggg ttcatTTTTG acgtttgctc aacaattcca tatcaagcgt ttgttctact 120
 atttaaaaag catgcaaag gctcgttta cagaattctt aacatgctac gggtatggcg 180
 ccttcgtcgc ctcaagtatc tatttgccag actagaaaag gatattaggt tggactacta 240
 ctggataagg tgcataaac taatatctgt tactcttttt acagtacatt gttcaggatg 300
 tttcaattac ctgatagctg atagataccc caatccagca agaacctgga taggagcagc 360
 aagaccagac tacagatcag agagcctatg ggttcgatat gttacatcga tttattgggtc 420
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<210> 14996

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-025-Q1-K1-D7

<400> 14996

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 tagcgcttat agcttgtag ccatggccac cgccgccgcg tctagcctcc tcaagtcctc 120
 cttcgcgggc tcccggctcc cgccgccac gcggaccaca ccggcgctcc tcgtggtggc 180
 caccggcccc cgcggcgcgc gcgcggggcc catctgcgcg tccatgtcca tgtcctcctc 240
 caaccgccc tacgacctga cgtccttccg gttcagcccc atcaaggagt ccatcgtgtc 300

ccgcgagatg acccgtcgct acatgacgga catgatcacc tacgccgaca ccgacgtcgt 360
catcgtgggc gccggctccg cggngctgtc ctgcgcgt 398

<210> 14997

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D8

<400> 14997

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agtgagtgat cgagctagct gagctccgat cctcgctagc tagctaggat accgccatac 120
cacaagtctt cttcacaagt ttaggagtga cagcaacaag agatctcgat ggcctctgcc 180
accgtgetca agtcctcctt ccttcccaag aagtccgaat ggggcgccac caggcaggcc 240
gccgcgccc gcccgcccac cgtctccatg gtcgtccgcg cctccgccta cgccgatgag 300
ctcgtgaaga ccgcgaaaac gatcgcgtcg ccggggcggg gcatacctggc gatggacgag 360
tcgaacgcga cgtgcgggaa gcggctggcg tccatcgggc tggagaacac 410

<210> 14998

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-025-Q1-K1-D9

<400> 14998

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caatggagac gcaagtggcg gtcgccac accaccacca gcagcagcag cagaaggcgg 120
ccaacctggc gcgtaccttc accaagctgc tccgccgcaa gcgcgccgag gccgcggcgc 180
agggcggcgc gcccgaggcg cccgcttctg tggctccggg agacgcgttg gaggaggagc 240
ggacggagcc tncgccgcc atccgtccc tcagcaagct caagctgtcg gggaacctcg 300
ccgncgacta ctcgttcgac gccttcttcc gcaacgccgn cgagaagaag gcggcgggcg 360
cgggaggggg agcggtcgg cagcctgcgg gtgcggggga agtga 405

<210> 14999
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E11

<400> 14999

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gcaaggagaa gactcacatc aacattgtgg tcattggaca tgtcgactct ggcaagtcga 180
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<212> DNA
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<223> unsure at all n locations
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<400> 15000

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<210> 15001
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E3

<400> 15001

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<210> 15002

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E4

<400> 15002

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<210> 15003

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E8

<400> 15003

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ctggtggccc atgttagcag ctctcatgta cgtccttgta ccaatgccat gcctgttttt 180
tgggtgggtgga tccacacact tcttgaccag cagagaaggt ggagggtgga ttaatgctgc 240
aaaattcttg actggtgcat cggccatggg aagccttgct attccagcaa ttctgaggca 300

Jc675 U.S. PRO
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09/15/99

tgctggctta atcgagaccg gggccatgtt catcgagttc acgtccttct tcatccttgt 360
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 accgacaccc tg 432

<210> 15004
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E9

<400> 15004

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 agggcatccc ccagaccag cagcggetca tcttcgctgg caaacagctt gaggacgggc 180
 gcacgcttgc tgactacaac atccagaagg agagcacctt ccaccttgtg ctccgcctca 240
 ggggaagcat gcagatcttc gtgaagaccg tgaccggcaa gactatcacc ctcgaggtgg 300
 agtcctgcga caccattgac aacgtcaagg ccaagaacca ggacaaggaa ggcattccctc 360
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<210> 15005
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-F1

<400> 15005

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 cgccgccagg atcacgtgct ccctccagtc cgacgtcagg gacgtcgcca gcaagtgcgt 180
 cgacgccgnc aagctcgccg gcttcgcgct cgccacctcg gctctcctcg tctcggggcg 240
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<210> 15006
 <211> 411

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F12

<400> 15006

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 cgccccgtgc agtcggccgt ctctaggtcg tcggcgagga aggcgccctt cgtcgtcagg 180
 gccagctcca gccctccagc caagcaaggt gccgacaggc agctgtgggt cgcgccaag 240
 cagtccctct cctacctega tggcacgctg cccggcgact atggcttcga cccgctgggc 300
 ctctcggaac cggagggcac cgggggcttc atcgagccca agtggctggc ctatggcgag 360
 gtgatcaacg gccgctacgc catgctgggc gcggtgggcg cccatcgccc g 411

<210> 15007
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D5

<400> 15007

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 gggcccggt tagtgacatt tgggcctgat cgagtaacag aattctgtaa acgaaacaaa 180
 ttgcagttga tcataagagc ccatgagtgt gttatggatg ggtttgagcg tttcgctcat 240
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 gccatacttg ttgtcggcag gggcttagtt atcgtgccaa agttaattca tccacttcca 360
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<210> 15008
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-025-Q1-K1-C1

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tatcaagcat ctggatgctg ctctctctgt ttggtacctc tgcagttctt gtctctactc 180
tgtacactct gagcatcgcg ttcggggatg tgtttggggc aaggcacctt ctgtacggtg 240
aaaagtccct cgatgcggta acaagagtta acgacttggc tttggttga ttgggggtatc 300
tggttggtta tcccatcgca tctgcgtccg ttggcgcgct gcaaggctta ttgtcaaaca 360
atgtggttgc cctaaaaggg tcctgcccac attgtggcga gcangtattt gcattttgtc 420
aagatgg 427

<210> 15009

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C10

<400> 15009

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ctttctctc tctctaattc ccagcacatg ccagctcct ctccacgcca cgcgactgca 180
gaccgaggag cagtccgctc caggtgaagg caaggagtcc atctcccgcg acatgctcca 240
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cgagcgggtg tgagcagggc atccttccat tgatttctc cctcggctcc ctcttgctt 360
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<210> 15010

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C11

<400> 15010

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ggctcgacaca tctcgcatgc ccctatataa ctattcctgc ttctaaattt tcattttact 180
ctgccctttc aacataactcg ttcactctaca 210

<210> 15011
<211> 240
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-025-Q1-K1-C12
<400> 15011

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cacgatacaca cacaccctgg ccactctctac aggtgctctt gcttctacaa tactattgat 180
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<210> 15012
<211> 435
<212> DNA
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<223> Clone ID: LIB3060-025-Q1-K1-C2
<400> 15012

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ttgctacgga agtctttggc aggatcctga aagatagcaa caatggctct atattgcttt 180
atccagtgaa caaatcaaag tgggacaaca aaacgtcagt ggtcatacca gatgaggaaa 240
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cacatgcgat gagcctgaac agccaaatag tagagttctg tgaagaggct gatattggga 360
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ggtgggagac atttg 435

<210> 15013

<211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C3

<400> 15013

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gccgccgtca tttaaaaga cgaggatgag atcatagaca cagcgaaaga gcagtaccgt 360
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<210> 15014
 <211> 426
 <212> DNA
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<223> Clone ID: LIB3060-025-Q1-K1-C4

<400> 15014

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tacttt 426
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<210> 15015
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C5

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atgccattga cactagagtg cctcgtggcc ctccgtccac cttgtactat cgtactgggc 300
attccttcca aaggaagcaa gggtacacgc acagccagag cactattgta aggggtagtt 360
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cattctgat 429

<210> 15016

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C7

<400> 15016

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ggggcccaag accgaggggc tcgtgcgcag gaagctgatg aggtcctgt cgctcgtccc 240
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cgccgccgcg aggaggcgcc ggaggaggag ggccaacaga gccgcccagc tgctgggggc 360
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<210> 15017

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C8

<400> 15017

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<210> 15018
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-C9

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<210> 15020

<211> 401

<212> DNA

<213> Zea mays

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<210> 15021

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D3

<400> 15021

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tgcgaaagta cactccgtac tcagggtttt cgaacccatg ttgttgtagg tgatgagaag 180
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<210> 15022
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A1

<400> 15022

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cttcacagga cgacgacgct gggacttcac ggacacccgg ctgctccaac aagttccagc  180
tggtcaaggt gaagaattgg gtgaatggga ctgaaggtag aacttttggt ggctaagtg  240
caaaatttgg agctcccttg ccaagagata ttcatgaagc aaaaaagtca tttgctgtcc  300
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 <212> DNA
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<223> Clone ID: LIB3060-025-Q1-K1-A10

<400> 15023

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ctcggacccg gagggcaccg ggggcttcat cgagcccaag tggctggcct acggcgaggt  360
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 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-025-Q1-K1-A11

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<210> 15025
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A6

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 cccctcgatg cggagcagaa gcaggcacia attttggcat atgtcgagta ctttggccag 240
 tttacagctg acaccgatca attgcctgaa gacataactc agcttatttc aaggtcctaa 300
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 ctatgatag 429

<210> 15026
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A9

<400> 15026

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gtaaccggcg atagattaaa agaagctcaa tacattaaca aatcactctc tgcgttaggt 180
gatgttattt ttgctttgtc acagaaaagt gcccatgtgc cttatagaaa cagcaagtta 240
acacaagttc ttcaaagttc tttacgtgga caagcaaaca ctctcatgat tgatcagata 300
aatcctgatg ttgagtcata ttcagaaact atcagtactt taaagtttgc tgaacggctg 360
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<210> 15027

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B1

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gagagagaaa gatgtcgttg ttcgggcacc accaccacaa ccagccggct cccccggcgt 120
cgggccccaa ccaggtgttc aagatcttct gccgcgcaa cgagaactac tgcctggccg 180
tccgcgacgg cgccgtcgtg ctggccccgg tcaaccccaa ggacgaccac cagcactggg 240
acaaggacat gcgcttcagc acccgggtca aggacgagga aggcattgcc gcgttcgcgc 300
tcgtcaacaa ggccacgggg ctgcgccatca agcactccct cggccagtcc caccgggtca 360
agctcgcgcc tttcaaccg gacc 384

<210> 15028

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B11

<400> 15028

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ccggcgccgg cgccggcggc cggcggggcca cgccgccgcg tcgttcggc cgggtgaaggc 120
ggagctcggc ggcgtcgcga cggagctggg ccgccagctg gtggaggcgg tgggcgtggg 180

gctcccctgc accgtcatgc agtgcgggcga cgcatctac cgcagcacgc tcccccgaa 240
cgacgggctc accatcacgg cccccggcgt cgcgctcgcg ctgctaccg tgtcgtaact 300
ctgggtccacg cccggcgctg cgccgggggtt cttegacatg ttggtcctcg ccttcgccga 360
acgcctcttc cgcccttctt tccgcaagga tgact 395

<210> 15029
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B2

<400> 15029

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actccggcct gcagacgggt gaccccgccg gggtcacctt cgccgacacg ctggcctgcg 120
gcgccgtcgg ccacatcttc ggcgtcggca tcgtgctcgg gctcaagaac accggcgccc 180
tcgaccagat catcggttag atccctacgt cgccgttgtt aagatcagac tcagcagcct 240
cgatcgcgcc gccggccggc aggtgcaggt ggtgactttg taacgtgtgt gcgtgcgtac 300
gtgtacattg catccatctt gggtccaatg gacatatagc tcctgttgct cctct 355

<210> 15030
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B3

<400> 15030

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gggcccgcgg agccgggata tactccaggg aagtcgagca aggagagcgt ggattgtgga 120
ctacaggggt aaagatcgag tgagcatcgc tgcaccatgc gcccttctat ctgctgtgca 180
cctctttttc ttctgctact attacatttg gcatttgcta gacctctctt tcctctaccg 240
agtaagacaa agaatgaaga gaagaagccc atacagacgt ttcggccata taacattgct 300
catcgtggat caaatgggga aattcccag gaaacagctg ctgcatacat gagggctatt 360
gaagaagagg cggattttat agagtctgac atccttgcta gc 402

<210> 15031
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B5

<400> 15031

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 gggaggccac ctgccggcag ttcgaggagc acagctgcaa ccgcggcgga tactgcaact 180
 ttatgcacgt caagcaggtc ggccgggacc tgcggcgga gctgtttggc cacctgcac 240
 gtcacctccg gagccacagc cggggcagcc gcagcccgag ccataaccgc cgccgcggta 300
 gtcgctccag gtccaggac cgcgacgatt actactacta caactaccgt agtggcagtg 360
 gcagccgcaa gagcagcgag aggcaccgga accacgacag ggacgggagc cggcgctc 417

<210> 15032
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B7

<400> 15032

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 gtcgaggcga ggacgaggaa gcagatcgaa gcaccaacc acaccacact ggtgggtgagt 120
 ggttgctggc gatggccatg gaagcgatga tgagcgggct caactccggc gtgggtgctca 180
 gcctgatcgc cgtgctgtgg acggtggtgt ggcagaacct gcagcacctg cagctgcagc 240
 agttcttcgc gcggcagctg agccggcgcg cgcggcggtt ggcggcgatg gtggacccgt 300
 acctgtcggc caccatcgcc gactacgagg gcggggcggt gaagcgcagc gacgcgtacg 360
 aggaggtcaa ggcctacctc agcgacgcca gcgccacgg cgtgcgccac 410

<210> 15033
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B8

<400> 15033

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ggacatgata atcatctatc atctttatta ggtggagttt caggggcatg atcatcatct 120
ggctgacatt gcattgtcac caaaacatgc tgggtgttact tttttttagt aaaccagcga 180
aaccacatca actattataa tgaaaacaca tcggtggaac tgcacaaagg ggaatacatg 240
ataactaatgc tacaa 255

<210> 15034

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-H8

<400> 15034

cacgtcctcg cctaaatcca cacgcacctg atgggatcta tagctgccct ggcgcagtcc 60
aagtctcgcc catggaagga atcgctcgctg gaagaaatcc tcgccaaaat ccacgctgga 120
tgggatctgt gtgggcaccg tgggtcgcct aaatcgatgc cgcaccattg gcaccttcca 180
tcctcgacgc cttccatcca tggatggaaa tcgtcctttc catcggcggc gcccttcttc 240
tccccacaca ggcacctgcc tccccatcct tctctgcata ccactcgcg tgcagccata 300
cgcgctcacg gtagagcacc gacgggggat ccgacgcctg ctctgcatc cctgcagaga 360
ggcctcctcg tcctcgccct tggcggcacc gtgaggtatg gctacattcg 410

<210> 15035

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G2

<400> 15035

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caccctgatg cagccggcca agatcggcgg ccggggcgccc ttgacctcgc tgccgtcccc 120
cccgtcgtcg caactcgctt gcagggcggtt cggcgctcgac gccggcgccg ccaggatcac 180

gtgctccctg caggacgtcg ccagcaggtg cgtcgacgcc gcgaagctcg ccggcttcgc 240
 gctcgccacc tcggcgctcc tcgtctcggg cgcgagcgcg gagggcacgc ccaagaggct 300
 gacctacgac gagatccaga gcaaaacgta catggaggtg aaaggcacgg gcacggcgaa 360
 ccagtgcctg accatcgacg gccgcgtgga gtcgttccc 399

<210> 15036

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G4

<400> 15036

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 tatacaacta taactctcac attctaactt catcaaatta ttctaataaa ttaataatct 120
 ctaaataatt cttaaaaata caaattgcta attaattcat tttcaattta caaaaattta 180
 aattcaaaaa aatgtgtctt aattatatca tatacaacta ctacacattc attcaagcca 240
 ttattccatt ttcttacaaa atattatata caaattgatc aacctctatc ttacaaattt 300
 ctccaaaat acaacacacc tttttatac 329

<210> 15037

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G5

<400> 15037

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 cggacgcggg cggcgacagc cgcggccagc tgctgctcgt cgtggtggcg cccgccatcg 120
 ggtgggtgct gtacaacatc ctgcagccgg cgctgaacca gctgaaccgc atgcgcagca 180
 gccaggccgt ggccgcccgc ctgggcctcg gcgcgcggcg cgacgtcggg atggcgggccc 240
 cgcccgaagc ctccgtcgcc gtggtgcagg acctcgcggc aatcgccgtc gacgcgcccc 300
 ccgacgacag ccgcggcctc ctactgctca tcgtcgtcgc gcccgccatc ggctgggtgc 360
 tcttcaacat cctccagccg gcgctcaacc agctcaaccg gatgcgggtcc gactgaagct 420

agctagctag cg

432

<210> 15038

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G6

<400> 15038

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aaggctcgagg agctcaacat ggcattatca gatatcggaat aatctaggca gctatagcgc 120
tcacattcta acttcatcaa attattctaa taaattaata agctggaaat aagtcttaaa 180
aatacaaattg gctaattaat gcatttttcca tttaaaaaga ttgaaattca agaaaagggtg 240
tattaattat atcatatata actactacac atgcatgcaa gccatgggtg gattttgtta 300
caaaatattg tgtacaaaagt gatcaacccc tatctgacag ttttctccca aaggacacac 360
cccttggggag aactgcatc cattgtatat aagagatcct atttgcaata aagttgacaa 420
ctgtcattcc ctta 434

<210> 15039

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-G7

<400> 15039

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ctccgctctg cgctgctcgc catggcgctc tcgacgggga gcttggagca cggcggggttc 120
acgttcacgc cgccgccctt catcacctcc ttcacggagc tgctctctgg ggcagcagcg 180
gacatggtag gagccgcggg cgccgatcat caggagcggg cgccgagggg gctgttccac 240
cgcggggggc acagaaggcg gcggcgtagg cgttcccca gttcaagtcc gcgcaaccgc 300
ccagccttgc catctcgccg ncgncgatgt cggcctnctn ctacttctnc atcccgcgcc 360
gggctcagcc ccgcccagct gctggactcg cccgtcctgc tccactcttc ctggaacttc 420

ttcgcg

426

<210> 15040

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G9

<400> 15040

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caccatggcc ctctcctcca cggccttcgc cggcaaggcc gtgaacgtgc cgtcgtcgtc 120
cgccttcggc gaggcccgcg tgacgatgcg caagacggcg gcgaaggcca agccagcggc 180
ggcgtccggg agcccggtgt acggccccga ccgctgtctg tacctgggccc cactgtccgg 240
cgagccaccg agctacctga cgggcgagtt cccgggcgac tacggctggg acaccgcggg 300
gctgtcggcg gaccgggaga cgttcgcaa gaaccgggag ctggaggtga tccactccc 360
ctgggccatg ctgggcgcgc tcggctgcgt cttccccgag ct 402

<210> 15041

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-H10

<400> 15041

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ctggtgatgg tcaattatgc agcacctcag aaacactagt ggatgttgaa aatagaaatg 120
gagatttggc agctctgtct gaagacacga ctgaaacaaa tcgtcctcct atcagagttg 180
taccatttcc tgtccctgtt caatgcttca catttgatgg gcagccgttc tggaatggta 240
caccggtggc atctccattc taccacagc cagctcccc catttggaat agcaaaacac 300
caacgtggca agaatcaacc ncacaggcaa cttcactggc gcanaaatcg caacagaatg 360
aaccagttg aatggat 377

<210> 15042

<211> 376

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-024-Q1-K1-H12

 <400> 15042

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 ttcttggaac acagcacgct acttacttga aagtaaaggg agatacttgc cgcgttgga 120
 ttctccaact ccaaccaaga cgaacgattt catcccacta atcctttttc ttttcttttc 180
 gtttttattt ttaatttctt gggtcgggtc ttgatcacct gttcttcctt atgaccttat 240
 ccaggaaatt agattatcag gtgcttctat ttgtttgtgc atctcttggt tgcgcctgcg 300
 atctggacct tttttggctc ctcaacaaaa gagaagatga gcctttcttg gtggtagtta 360
 caaccggtgg cgtctc 376

<210> 15043
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-H2

 <400> 15043

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 gacggcgctc ccaggaatg ggcagcgggc gtcgtcctcc ttctcggcg gcaagacgct 120
 gctgagacag gccgaggcgg cccggcgctc gttcgccgtg cgcgccgcgg cggaccccaa 180
 caggccgacg tggttccccg gcagcaccac tccgcccgtg ctgcacggca gccttccccg 240
 cgacttcggc tttgatccct ggggcctcgg atctgaccgc gagagcctgc ggtggaacgt 300
 gcaggcggag ctggtgcact gccggtgggc gatgctcggc gcggcgggca tcttcatccc 360
 ggagttcctg accaagatcg gcgtcctcaa cagcccttc tggtagaccg ncggcgagca 420
 gcagtacttc accgacacca ccacc 446

<210> 15044
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-H4

<400> 15044

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gacatcctgg atattccttt gcctgaacta gaatctatga gatctctgaa ggtcgccttc 120
caaaatgccg caaaccatga gatgtcgctt cacattatgc ggttaccaa aagtaactct 180
ctccttgatt tgattgaaga cttaaagtca aagggtgaaa tttcttgtaa tgatgctgaa 240
tttcgggttt ttggagtcta ccttcacaag atatgcaagg tgtatcaacc tggagataag 300
atagattcag ttaatgacca tggacccttg tatattgaag aggttcccga ggatgaaaaa 360
aatgccgggc ctcatgaccg ttggttcat gtctatcatt ttgaatataa tcatcatatt 420
cagtattttg gtgaaccttt cttcttcc 448

<210> 15045

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-H5

<400> 15045

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aaggcttggt cctgctcctt gtatctccac tcccccttc acagatccgt tctccagct 120
agggttagcg ttcctctgca gcgatggcga tcaagcggac caaggcggag aagaagatcg 180
cgtacgacaa gaagctgtgc agcctgctcg atgagtacac caaggtgctc atcgccctcg 240
ccgacaacgt cggttccaag cagctccagg acatccgccg gggcctcagg ggcgactcgg 300
tggtgctcat ggggaagaac acgctcatca ggcgctgcat caaagtgtac gccgagaaga 360
ccggtaacca cacctttgac ccgctcatgg acctnctggt cggcaacgta ggcctcatct 420
tcaccaaggg agacctcaag gaggtgcc 448

<210> 15046

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-H6

<400> 15046

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ccgtcgccgg ccaccagcct ccggagttcc tccggcgatc cccgtcccct tgtgtgcgcg 120
ctccaggagg gccttctgcc tccagcttgc agagcccacc taattgctgc gagatggata 180
gagggcagaa cgggagggat gacgtcttcg gacgcaggga tccattttct gggtttggtc 240
tcggcccccac caggagcttg ttttctgggc tccttggggg gagggatcca tttgacgac 300
cgttctttac ccatccgttc gggggtcgga tgatgggtga ccatgacatg tttgtaccta 360
gtccttttgg gccgatggga gggccttttg gggacatgag gaacgggtggg tttatcgagc 420
aagtcctnc taggggtaac agaagaaggc ctgtgatcac 460

<210> 15047

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-H7

<400> 15047

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attgggttaaa gagactgcaa agatatagct tgttcgcttt ggattaaatc cagctatttg 120
gactaatcct tagagacaaa aacactgtat aagtagtaaa agtcggtacg aattaaagct 180
caagctagtc gtatctatgt aatgaataag ggtgaaacct ttgcgaccc agataataaa 240
tgaaattaat ttttaataaa ataaagtgt tatagttcgt tgc 283

<210> 15048

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-G12

<400> 15048

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cgagcctatg tgactgtctt ggggatgcaa ctgtggagtc cttgagatga aactggattt 120

acacaaaagt aaatcctttg tggactagca gtagttgcat atacatggat gggttgaagt 180
 ttagccatcc tggttcatat tcatgtagtg cagttcatat tcatgttgat atgcaataca 240
 ggttggtggt tgttcaactt gaatgcaagc taggatcggt tgcttctatt tatgtaactc 300
 tgtattatct ccagattagt atattcatat attcatcttg ttatatgggtg cactaggatc 360
 ttgaacaata attntattgg agctgggtgt tgtggcaatg gagca 405

<210> 15049

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E8

<400> 15049

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 ttccgcacaa attgtccagc tccctctgcy tttctctctg ctgcctcgy cctccaactc 120
 cggccatggt ggccaccgga agcgcgtctc ccggtccag ctcaacggtc tgcgttctcc 180
 ctgctctccc aagctgcgcy ccctgtcct gttccctgcy cgcgtgttc ctgctcgctt 240
 tggcatccgc gccatggagc cctgcaggga cgggcccgtta aatttagagg cctgtacta 300
 aaattcagaa gaggtcctat ttcatagaaa aaaaatacaa tcagaactat attgtaatag 360
 aattcatata ttctaaattg caaacatctt actagatgtg tttgaaaagc agcaagctag 420
 ctgctaacta agtt 434

<210> 15050

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E9

<400> 15050

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 tgtctctcag tcccagagct ttcttgatc gcgaggaatc cactggaaat tttgcaattg 120
 tagtagagaa ctgtatcgtc cgacgaaggt gcatggtgtt ggccatgggt cacggcaggg 180
 aacagagacg agcaggtcgg cgctctcccc ccagctcatt gatcctgtcc tcgctataag 240

gtagtcctgc ggtggcctcc gaatttcact cgatcgaaca cgacatgaag cggccacgcg 300
gcgccagtcc ccctctggct gcgatgacca atccgaacga tgatggttac ggcgtggctcg 360
ggatggaggc ggacgcagac gcggacg 387

<210> 15051
<211> 399
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-F10
<400> 15051

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gcaggctgcc ggaggtgacc atcgtcccgg cggcacggcc gttggctggc gacggcacag 120
tcgacgcggc aaaggcggcg gcaggcaagg agcccgtaag cccgggcact ccgtcctcgg 180
tggccgccgg ccgcagcagc tgtgaggaga ggcgcgcggg ggacggcgtc gccctgcctg 240
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tnccctacta cttctgaagc tttcctgttg cagtccctgcg tgagttcttg agcggcgaca 360
tctggtgcat gctcttgacg actgatggcg ttctcttgg 399

<210> 15052
<211> 406
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-024-Q1-K1-F11
<400> 15052

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aggaacctgg agaggaatgg caggatcacc tgcattgacgt ttccccggga ctggctgcgg 180
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gccatcaacg gcaacagcct cacggggctc ttcttctcca gcacggcca ggagctggcc 300
cacttcccca cggccccgcc cgtcacctcc cagttctggc tgtggctagt gacgtggcac 360

ctgggcctgt tcategtgt caccttcggc cagatcggat tcaggg

406

<210> 15053

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F5

<400> 15053

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gcattggatg gtcacatatt tgcttttggg ggtggagggtg gcaagtcac atggtataac 120

acagttcgag gaataacgag tggatagaat gcccctcggt gaaccgcaag aaaggaagtc 180

tcgctgggtat cagtcttaat agcaaaaatat atgctattgg tggggggagat ggaaatgaaa 240

ctttttcaga agttgagatg tttgatccat accttgggaa atggttatgt ggtccatcta 300

tgctgattcc tcgatttgct cttgccgtgg ctgaattgaa tggaacaatc tacgccactg 360

gtgggtatga tggaagcatg tacttacaat cagcagaacg gtatgaccaa agggaggggtg 420

tctgggtccg tcttcgaagc atg 443

<210> 15054

<211> 137

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-F6

<400> 15054

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ctctcatcct catctaacca ccacagcacc tactccttct cattccctaa cccaccactc 120

ttcccatacc ttcattc 137

<210> 15055

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F7

<400> 15055

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 ctgaatacat gtgtgtgtat gcatgtttct gcaatcgtct ttactgaaaa atctgaaacc 180
 gggcagccgt gaaccttttc ttctcgtaag attcataata tagatagtca ctgccatgtt 240
 ctatt 245

<210> 15056
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-024-Q1-K1-F9
 <400> 15056

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 tcgctgtgggt gtggagcgac gaggcgcagc tgcggccgtt cgttgagctg tactcctcgc 180
 tcgggtggcg ctgcctcgtc tgccaccccg atctcgtcgc actatatctc tctgagaaag 240
 caatatcgct ggcaactggt gttataaatg agctgggttaa ggaactgaaa ataaaaattg 300
 tgccaattgt tcttgcttcc tttctggcg gctcaaagg atgcatgtat aaggttattc 360
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<210> 15057
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-024-Q1-K1-G11
 <400> 15057

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 cgccgccgcc ccgccccgcc cgcgcgtcct ccgccgtcgt ccccggaagt gttttcgcct 120
 cagggcatgt ggatctgtta gttcacctgc tgcaagcaag tatagctaca gggttgacca 180
 gtgtagaagt atgaatcctt actttgttgg gattcttgct cccgtcgcgg tctccctgct 240
 gctccgcaag aagagaaagg ccgaaaggat gaggggagtg ccagttgagg ttggtgggga 300

gcctggatat gcagtccgta actatcgttt tgaacaacct gttgagacac actgggaggg 360
 ggtgtccaca cttgctgata tgtttgagca atcttgcaaa gagtatgtat acatg 415

<210> 15058

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D4

<400> 15058

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 aagttgggag aggagaggtg gttcattcca gcagggatcc ttctcgtgag cccagtcgat 180
 ctgaccgtcc ttggtatctg ggggggttgt tctgtactct ctctttaatt tgtgagtcgt 240
 gacaggttct tgaagtgcaa ttgttaagag ttttagttgt agaggaagag aaggatttgc 300
 taatatggcg ttggcagga cctccaaagt agtgctggga tgtatcgctt ttgggatttt 360
 ctgggtgatg gccgtcttcc ccaccgtccc gttcatgcct gttgggcgga cggctgggtc 420
 cctccttggt gctatgctaa tg 442

<210> 15059

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D5

<400> 15059

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 aattatccaa gcagctagtg ctagcatcta tggcgacctc cgttcgtggt ttcagtagcg 120
 cccctgcag ggatgtgccg ggcagctacg gccttcgctt ggtgggcgcc gtccgcgacc 180
 gcctcgactt ctactacttc cagggccagg acaagtactt cgagtcctcg gtggagcgct 240
 acggctccac cgtggtgcgc atgaacgtcc cgccgggccc cttcatggcg cgcgacctcg 300
 ggggtggtggc ggtcctggac gccaagagct tccccgtcct cttcgacatg gacaaagtgg 360
 agaagaagga cctgttcacg ggcacctaca tg 392

<210> 15060
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D6

<400> 15060

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cggcgaagct ggagcgcggg ctccggcaagg gggttccac caccaactac gtggtgccgc 180
tcgacaaggc caccgggatg acgcgcccgc tcgtcgagat cctgcgggac ctcaacaagc 240
gcgtccccga caagatcatc gaccccgaca ctaacaccgt caactggtac catgccaaaca 300
gaatgcttag cttttacgca ccaggttggg gtggagaagt tcgtgatgtt atctattctg 360
agaatggaac tgtaaccgtg gtatatcgag tgataactaa aggaactgat ggagaggcat 420
acagagatgc caccggcaca 440
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<210> 15061
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-D7

<400> 15061

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aaatacagac cattcaaag gacaaaaaca ttcttactgg aaacattccg cccatattta 120
gtcgactata tagcttgaac ttgctcaatc tttcccataa caatttatct ggccccatgc 180
caacttttct aagtgggtcta aatcttagta aactagatct atcctacaac aattttcaag 240
gacaaaatacc aagaactggt gtattcaata atcccacaat tgtttcacta gatggcaatc 300
cagaattgtg tggaggagcc atggatttgc atatgcctnc gtgccatgat acttcaaaaa 360
gagtaagtag atcaaactta ttgatcaaaa tattgatccc aatttttggg ttcattgtcac 420
tcg 423
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<210> 15062
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D8

<400> 15062

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atcatcaggt cgtgctagct agctagctat agctgggccg ggggacgtac gacatcagcg 120
cgcggccatg ggcgtgggga agctgatgaa cgacgtgaag ccatacctgg cgatggtgct 180
gctgcagggtg gggttctccg ggatgtacat cgtctccgtc gcctacctca agcgcgcat 240
gaaccacttc gtcctcgtcg tctaccgcaa cctcgtcgcc accgtcgtca tggccccctt 300
cgacctcttc ttcgagaagc gagtgaagcc caagatgacg ccgctcatct tcctcaagat 360
catggggctc gccgtgctcg agcctgtgct cgaccagaac atgtactacc tcggcgcgaa 420
gctgac 426

<210> 15063
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E10

<400> 15063

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agctgctcgg tgctccacgc gatggcgag aaggagacta atggcagcaa cggcgatcac 120
atctccaccc gcccgccgcc gacccccctcg cccctccgt tctccaagtt ctttcaggct 180
aacctgcgga tcttggtcac tgggtggggcg ggcttcacgt gctcgcacct cgtagacaag 240
ctcatggaga acgagaagca cgaggtcatt gttgctgata actttttcac tggttcaaaa 300
gacaacctga agaagtggat tggccacca agatttgagc tcatccgtca tgatgtcacc 360
gagccgcttc ttgtggaagt tga 383

<210> 15064
<211> 416
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E11

<400> 15064

cgggagtagt cgacgcgccg tcaactgaatc ctcagatcac ggctagccgt aatcacgccca 60

ctctgctgac tcccggcgag cagtgttaaca ttttccttca gccatgggca aggagaagac 120

tcacatcaac attgtggtca ttggacatgt cgactctggc aagtcgacca ccactggcca 180

cctgatctac aagctcggcg gtattgacaa gcggtgtgatt gagaggttcg agaaagaggc 240

cgcgagatg aacaagcggc cattcaagta tgccctgggtg cttgacaagc tcaaggccga 300

acgtgagaga agtatcacia ttgatattgc tttgtggaag ttcgagacca ccaagtacta 360

ctgcactgtc attgatgcc ctggacaccg tgacttcac aagaatatga ttactg 416

<210> 15065

<211> 247

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-E12

<400> 15065

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gggcctncac caaccggtgg cgcttcccc ccgctcggg tctcctggtg ccgtgttccc 120

tccgggagct ccgcaccgc atcgactccg tcaggaacac gcagaagatc acggaagcca 180

tgaagctggt ggccgccgcc aaggtccggc gcgcgcagga ggccgtcgtc tntctctgcc 240

ctttctc 247

<210> 15066

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-E2

<400> 15066

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gcggagcttt tgctcccaag ccatcttctg gacctcaca gtccagggag tgccttcctc 120
 tgatcctcat catcaggaac aggcctcaagt atgctctgaa ctaccgtgag gtcatttcta 180
 tcctgatgca acgccatgta cttgttgatg gcaaggtcag gactgacaag acctaccctg 240
 ctgggttcat ggatgtcatt tccatcccta agacaatgga gaactacagg ctgctttatg 300
 acaccaaggg ccgcttccgt cttcacccaa tcagggatga agatgccaa ttcaagctct 360
 gcaagggtgag gtccgttcag tttggccaga aaggcatccn ctacctgaac acctacgac 419

<210> 15067

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E4

<400> 15067

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 cttggaattg aaggcaaaat atggtgcaaa ggtaattggg tctgagaagg ataaggacag 120
 aatacctggc attgacatca cgcttaagga ggggtgacaca tggatgttcg ctggccatca 180
 agttcttgta ctggaaactc ctgggcatac aacagggtcat gtgtgctatt atttcgctgg 240
 ttctggagct atatttacag gtgacacctt gttcaatcta tcatgcggaa agctttttga 300
 agggactcca cagcagatgt atgcctcact ccagaaaatt acagctctac ccgatgatac 360
 aaaagtatac tgtgggcatg aatatacctt gagtaatgca aagtttgcct tgagtgtaga 420
 aaccgggaaa taaagcat 438

<210> 15068

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-E5

<400> 15068

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 gctcgacaac aggaaacccc atctctctct ctctctctct ctctctctct ctctctctct 120
 gccttctgtt tccaggacgt cccaactgcc cagcgccgac cggccggcca ccatgaagcc 180

gccatcatca ctggtgcaact acttcaagct gctggctcctg ctggcgctcg ccaggctgac 240
catgcacgtc cccgacgagg acgtgctctt gtccctcggc gcgctgcgcc tcgacggcca 300
tttcagtttc cagcagctct ccgccatggc gcgggacttc ggcaaccagt gcagcttcct 360
gccggccgnc gtgctccacc ctggctcggt ctccgacatc gncgccaccg ttaggcacgt 420
cttctccctg ggcgaaggct c 441

<210> 15069

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-D2

<400> 15069

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gatggccgcc accgccctga gcatgagcat cctccgcgcg ccgccgccct gcttctcgtc 120
cccactcagg ctcaagggtcg cgttgccaa gccgctggcg gccccatgc ggcgccagct 180
gctgcgcgcg caggccacct acaacgtgaa gctgatcacg ccggaggggg aggtggagct 240
gcagggtgcc gacgacgtct acatcctgga cttcgccgag gaggaaggca tcgacctgcc 300
cttctcctgc cgtgcgggggt cctgtcctc ctgcgcgcgc aaggtcgtct ctggctccgt 360
cgaccagtcc gaccagagct tntcaacga caaccaggtc 400

<210> 15070

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-B7

<400> 15070

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atggcagcta caaggttctg tccatgggct ctccgagAAC tgactccgtc tgttcccagt 180
ccaaagcggg tccttcgtcg tccgccgggt ccgccacggg gcccttgcat caccgtcacg 240

gcccacatgctc gccgttgccg accaagaaga tgccgacgtt ggaggagacg ctccaccgcg 300
 atcagctccg agctgcctac atccagcgga agttctcagg cggcgggtggc gctgggtggtg 360
 acgtccagcg atcggacgcc accgtgccga cggccctggg cacctncctg aacacgctgg 420
 agtacctgat ca 432

<210> 15071
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C10

<400> 15071

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 cgtctccttc atgaccacc ccgtcggcac gagcatccgt tcacctcggg caccgacgga 180
 tgccaatcta aatgtggcca tcaacggatt ctgccacatc tgactcaact tccttcgggtg 240
 ctgacacggg cactgcgaca cctctcccct ccacgtcatc tccatcaa 288

<210> 15072
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-C11

<400> 15072

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 cctgtacctg atcgccatcg cgcagggcgc cgacaagccg tcggggctgg ctttcgcggc 180
 ggaccagttc gacgcggagc accaggggga gcgcgcctcc cgcgggtccc tattcaactg 240
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 ggagtacgtc ggggtggggc tcggcttcgg cgtcccctgc gccatcgtgc tctgcgcctt 360
 cctcgtcttc ctgttgggca ccccgacgta ccgctgtac gcaccc 406

<210> 15073
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-C12

<400> 15073

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acctctggcc gcgtcaccat gtcgcgggag tggatgcccg gccagccacg ccctgcccac 180
ctcgacggct cctctcccg ggacttcggc ttcgatccgc tgggcctcgc gaccgtgccg 240
gagaacttcg agcgggttcaa ggagtcagag gtgtaccact gccgctgggc catgcttgcc 300
gtccccggga tccctggtgcc ggaagctctg ggccctgggca actgggtgaa ggcgcanag 360
tgggcggccg tccccggcgg gcaggccacg tacctg 396

<210> 15074
<211> 539
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-C5

<400> 15074

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tttaaacctg gaaataaccg tagaacagta nataggtctt cagaaaaggg cgtgggggtg 120
ttatanntca ttgatatcat agtcggaagc catgccaaagc gaaaggccct cttgagaagt 180
gtctaagaat nngccctgtc cactttactc tctctgatct gtattccaag gagattaccc 240
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aagtataatg ataaaaacaa nttggaaacc gctatctgaa tggatcgaac ttaaacttnt 360
gtcgctcaag gtggcaccta acatcatgca tncctttgag tgaggcaatg actttgctgt 420
caacttctca cgatgcgctt ccacaaatct attttgttac tgatgggtca gttgatgatg 480
aacggaatat ctgccatata ttgaaaactc aacttattaa aagtggatct aagtctcct 539

<210> 15075
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-C6

 <400> 15075

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gatctctctg gttcttcttt tagcagcagg gacgcacaac acaagaaaag gtccggttca    180
agaggctctt ctggttgggtt tttttagaat cctcaagaga agcgtgttct tgggttagga    240
ttttttctc acctcataac acctctccta ggaggaacag agatccagag aacctttttt    300
ctcttctgga tccttgccga cttttggcgt tcgaaagggg gttgttttgc aataccctct    360
ctctggtntt tttttctttc ttggcacaaa ctcacctcgt ttctctactt ttattgagga    420
acagagctgg ttttcc                                                    436
  
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<210> 15076
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-C7

 <400> 15076

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tattccagaa ttgcggttta gtgcagtata tgtatgagat tttgttcatg accatatttc    180
caccacaat tcacttcac tgcactttat ggctgcacac tgcgcttctt gggttaggta    240
ttggtggtga ctacacacaa gggagctcct gaggagtcc atggtgcaaa ggtcattggc    300
tcttgagact ttccatgtcc tctgtaccaa aatgttccac tctcgctggc attgagcccc    360
agaatattnt ctgaggcgaa taaattcaag ccagacataa tccatgacac atcacctgga    420
attatggntc tccgtgctct ggctataa                                                    448
  
```

<210> 15077
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C9

<400> 15077

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 cccaacccgc cagggcgagc caccacgtcg gtctccctct ccgcgcgccc cgtcactcca 180
 gcccgccgca tgattgtccc ggctagcccg tcgcgcgggt cgcgcgcgcg gtgccggtcc 240
 atctactccg agagctccac cgaggcatcc gctgcggctg acatcgtcga cgaagaagtg 300
 gaggccgaga acaaggtgga cccgcaggcg gaggtgtgct acctggacct tgacgtggac 360
 cctgagtcga tccggga 377

<210> 15078
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D1

<400> 15078

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 atgagtgttt cttcaagacc atattattat tccagaattc gcgttttagtg cagtatatgt 180
 atgagatttt gttcatgacc atatttccac ccacaattca cttcatctgc actttatggt 240
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 gagttccatg gtgcaaaagt cattggtctt tggagctttc catgttctct gtacaaaaat 360
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 gacataatcc atgcgacatc acctggaatt atggttctcg gtgctctggc t 471

<210> 15079
 <211> 354
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D10

<400> 15079

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gctcaacgtg gaccaggccg acagcaccat aagctcccaa ggtgttcttt accttcgtct 120

cgccaagagt gatttccagg gtttgagcag aggcaacaag aggacaccga cggcggcgat 180

cgctgcaggc gctgttggtt ctggaatact agtgctcgcc gtgctagcgc tcgtaatctg 240

gaggtgcaac aatgtgccgc cgccgctaca cgccggcgtc ggagacggtg gcggaatcat 300

ggcgttcaaa cacaccgatc tatgccgcgc taccaagaac ttcagcgaca ggct 354

<210> 15080

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D11

<400> 15080

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caggtctcgc cgtgaagctg cgttgatgaa gtttcgcatg aaaaggaaag atagatgctt 120

cgagaaaaaa gttaggtatc atagcaggaa gaagctcgca gagcaaaggc caagagttaa 180

gggacaattt gtaagccaaa agctgaactc agctacaaca acagacgcag aagctgactc 240

gtgaccggcg tcaagtcac actgtaactt attcttcctt tcccaccagg tgtgggcaat 300

cggacttgta agactgaaag ctggcagaag ttttttcctt tccatgggta gcctttctgc 360

acaacgggtg aactcttgtg tcgggtgttt ggt 393

<210> 15081

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D12

<400> 15081

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ggataggggtt caaagtgtcg ctatcgcccg catctcacct cccatacctc ttcaacacac 120
cacctcgctt acactccaaa cctgccacca caaccgctc tttgctctct acctgtcccc 180
accctaccca cgcccttcct ttgctacgtt tccctcccc actaccac 228

<210> 15082

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-B6

<400> 15082

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ttagaaatgc aagacagcca atacgaaatg ctagaaaatc ggccgcgctt aagggatgtc 120
ctcagcgctg aggaacatgt gctaggggtg atactatcaa ccccaaaaaa cccaactctg 180
ccttacgtaa agttgccaga gtacgattaa cctctggatt tgaaatcact gcttatatac 240
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aggatttacc cgggtgtgaga tatcgcatTA ttcgaggaac cctagatgct gtcgcagtaa 360
agaatcgtea acaagggcgt tctaaatatg gtgcacaaaa gccacaaaaa tacgtgattc 420
ggtttagccc ttat 434

<210> 15083

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A12

<400> 15083

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gcagctcagc gaccaaaca gagttggctg gaaactggtt tacgaagatc acgagaagga 120
tgtcctatta gttggtgatg acccatggga ggacttcgtg aactgcgtgc ggtgcatcag 180
gattctttcg ccgcaggaag agaggcaaat gaggctggcc agcgactacg gagacagctt 240
tcttggaac caagcgtgta gcagctcgga cgggggtcgt ccgtggaggg tcaccggcga 300
ctagaaatag caggctatgc ctgagcacia atgtttgata taatccgtcc cacgatagca 360

agaaaaatgat acgcgatttc tgagcacaaa cttttgcact cagatgatc 409

<210> 15084

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-A2

<400> 15084

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cgggcgcgga ggtgcacgtc gggcacgagc tgtgcgagcg caagtcgcgc gagttcatgg 180

tggagctggg cctccccgac gggctcctcc cgctgccag cctggacgag gtgggctaca 240

accggtcgac ggggttcgtg tggctgcggc aggccgtcgg cctgaccac accttcgggt 300

ccatcgga gacaggtgtg tacgacaggg aagtgcggc gtctgtggag cccgggcgga 360

tgcacggtct cgccgngtg aagagcaagg agctcctcat ctgggtcacc atctccgaga 420

t 421

<210> 15085

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A4

<400> 15085

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gccctcctcg cgtctgctcg cgccggcctt tggggctctc actctgagcg gcagggaccc 120

gcagggtctc ggttgtgtcc aggaacatc ccagttgttg gcgagagacc aagaaatggc 180

ggagaaggag ggagcgaagg ttggagcgga agagatggaa gagcgggagc aggaagggga 240

ggcagaggag gtggaggtga agtttcgtct cttcgatggc tctgacatcg gtcccgtgcg 300

ctgcaacgcc gtcgacacta ccgtagccgc cctcaaggat cgcgtcgtcg ccgattggcc 360

caaagataaa tcaattatcc caaagactgc tagtgatgtg aaacctaata gtggaggcaa 420

aattctagaa aatgacaaga atg 443

<210> 15086
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A5

<400> 15086

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acgtcgtcgc gcgggtggcg cggaggggtgg acgtcggcgc cgcgctcagg tctacgccg 180
actcgctcgt cgcgcagggtg cccgaccgcc cgcgctcgc cgactcctcc atactctgcc 240
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cgccgctccc cagcgcgcac cccagccctg ggctatgttg cacgggcacc gaccagccgc 360
tgggggcagt cgcggacctg gccgcaactg ccgtgggtcaa ctgggctccc accgacgccg 420
t 421

<210> 15087
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A7

<400> 15087

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ctttctctgc cctctttgct atatcgaccc accctgtcca tctccgcacg tcgcaccaag 180
gccgtctact ccagggcctc ctactactct ccataccgg actcttcctt cggatcgcgg 240
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tggcgctcat attccatgga cctgaagtca ctcttcaagc ggatcgggtg gcagccccac 360
gtcatcgagc tcgacaatct cggagctcaa ggaccacaac tacaaaaggt attagaaagg 420
ctgactg 427

<210> 15088
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-024-Q1-K1-A9

 <400> 15088

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 ctacctcggg agctggctcg tccacgccac cctgcggagc ctgcgggacg agaagaagac 120
 ggggctgctc cgggcgctcc ccggcgcggc ggagcggctg cggctgttcg aggcggacat 180
 gtacgacgcc gacaccttcg agcccgccat cgccggctgc cacttcgtct tcctcgtcgc 240
 cacgcccctg acgcacgacc ccaccagcac caagtacaaa aacacgacgg aggcggcggg 300
 ggacgcggcg cgcacatc ctccgcagtg cgcgctgtcc ggcacggtga agcgcgtcat 360
 ccacac 366

<210> 15089
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-B1

 <400> 15089

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 gccagcccat cggcacggcg gcgcanggca cggacgacaa ggactacaag gagcccccg 180
 cggcgccgct cttcgagccc gngagctca agtctggtc cttctaccgc gccggcatcg 240
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<210> 15090
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-B10

 <400> 15090

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 tatgtaccat cccgctcgac acggccaagg tcaggtcca gctgcagaag aacgtcgtcg 180
 ccgcgcgcgc ctccggggac gccgcgccag cgcttcccaa gtaccgcggc ctgctcggaa 240
 ctgcgcgcac catcgctagg gaggaagggg ccgcagcgct ctggaagggc atcgtcccgg 300
 gcctncaccg acagtgcac tacggggggc tccgcattgg cctctacgag cctgtcaaat 360
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<210> 15091

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-B12

<400> 15091

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 gtaccgcttc tgggagacgc cccgcgagga gttcctccgc gcgcacgcgg gcgccgtgcg 180
 cgccgtcgtc ggcaacgcc gctacggcgc cgacgcgcgc ctcatcgacg cgctcccggc 240
 gctcgagatc gttgcctcct tctccgtcgg catcgaccgc gtcgacctcg ccaagtgccg 300
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<210> 15092

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-B3

<400> 15092

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 ggaagacggc tgcggcctcg gctacggaga cgacgcggac tacagcgcca tgtacaacta 180
 cctgcaccag cccgcgtgcc tggaccacca ccaccatgcc ggcagcattg gctccacggc 240

gagcaacggg gtggtgtcca atggcggcgg cggcggcggc ggcagatggg acgacgagtc 300
cgaggacgag gacgacgatg gcagcatggt ccaaggcatc gaccagctgt tcaacgagca 360
cgaagacgac gagctgcacg ttgctggtgt cgacatcacc atcaagggca agaggatg 418

<210> 15093
<211> 329
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-024-Q1-K1-B4
<400> 15093

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gtagtaggca gccatgaatt tcggtgggaa tggcaacgcg acgatccggg gcaagtactg 120
cagggcgagc ctgagcgtga tccccggcga gcgcgccatc cagtgcgcgc aatgcaactg 180
cgtgaccgcg atccggcggg ccgaccgcat cccgcttggc gggncgnnnc acgtgccgnc 240
ggcgntncag cgcgcccggg gcangaagcg cgcnnccgct ggcggcacatc cgtacgccgg 300
cgcgcgccgg ggctggcggg acctgaggg 329

<210> 15094
<211> 146
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-G12
<400> 15094

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tatctctagc actgcagaca cctgtcaa atctctacaaag acacactcac acatgctcaa 120
agaccatata cctacagagg acacac 146

<210> 15095
<211> 460
<212> DNA
<213> Zea mays
<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-G2

<400> 15095

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tgaagcccc ggccggcgcc agcggcaagg ggggcgcggg ggacccctct ctgccgcggg 180
tcagggtgcca ggagtgcgc cgcgccctcg tcgtcgtcgg ggtccaatcc taccgccaca 240
gaactgcccc acaagccggg ccccgtaatc attcctcttc tgttcaaggc aatgggtattg 300
gtgccagcca gattgacaac tcttatgggt ggctatctaa accgaaccaa tcttaagggtc 360
ctagaatttc ttcacgcccc acaagtgcaa caaccgcaca tgcttatccc aaccaatcaa 420
caataaccat agaagggtca tatatagtcg ttccaccttc 460

<210> 15096

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G3

<400> 15096

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ttttcccttg ctggcgctcc ggtcctggct caccgcagct ccctgcgcga ctgccgctac 180
tccctcctgc aactcgggtg ctctcacctg ctccctctga tctctctctg acccgcgctt 240
gttccacttc gtggctcagg gcccagttg gttgggcctt gaacttccat tgcttaatgg 300
ccctggtcaa ggttttgggc gccaaagtcc ttaagttggg tcttccattg gttgcttgct 360
cgggcggcct ggttcttttc ctttcttccg gtttc 395

<210> 15097

<211> 307

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-G5

<400> 15097

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 atccgatggc gtccacctcg tgcttcctcc accagtccac cgcccgctg gccgcgccgt 120
 cgccgcgcct cgccgccccg ccgcgccagcg cgcaactgtt cgtctgcaag gcccagaagc 180
 agcaggccgc cgcgggcgag agcgacgtgt cgcgccgcgc cgcgctcgcg ctctctgccg 240
 gcgtcgccgc cgtcggcgcc aaggcgagct ccgccgncgc cgnctacggg gaagcagcca 300
 acgtggt 307

<210> 15098
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-G6
 <400> 15098

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 cgtccgcgtg gccgcgccgt cgccgcgcct cgccgccccg ccgcgccagcg cgcaactgtt 180
 cgtctgcaag gcccagaagc agcaggccgc cgcgggcgag agcgacgtgt cgcgccgcgc 240
 cgcgctcgcg ctctctgccg gcgtcgccgc cgtcggcgcc aaggcgagcc ccgcccgcga 300
 cgtctacggg gaaacagcca acgtgttcgg caagaccag aagaaca 347

<210> 15099
 <211> 260
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-G8
 <400> 15099

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 cgggtgtcttg cctctctctc ggtcgaagaa gaagaagaag aaaacatgtg tccgggatcc 120
 gtggagtcgt cgtcggcgcc gccggcgccc aagagcgtgt gcgtgatgga cgccgcgggg 180
 ccgctgggcc acgcgctcgt ggaccgncn ctccggcgcg ggtacaccgt ccacgccgnc 240

acgtacgccc gcgacagggga

260

<210> 15100

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G9

<400> 15100

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agtccatact gaagacgagg ccggtgctgc acaaggccgt ggcgggcgcg cacgccttgt 180

cgctctcttc aggaggaccc ggctgcggct ccatggctgt cgcgggacctc agatgcttgt 240

cgggggcccaa cacactgatc 260

<210> 15101

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H1

<400> 15101

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gaagtgatcc tgggggtacgg gcagaagttg tccattcatt gaaagaggaa ttgaatctga 120

tgtgtggcct ctcttgctcg cgcatccat aagttaatac tgctctatct gtaaccttta 180

cttaacattt tggattcgct ctttttaaaa taatagttgg aatgtaactt actgccttac 240

tttttacatg gcaaatggaa caatcaaggt gaaccggcca attggccagt tttgaatggg 300

aattaacttg gaaaccactt ttaattacct tggaaaggcc gccgtatttg gtcaacttga 360

tgggggggtt gaagtgggaa tctttaaaat tcaagggttg aacttgacct tccaatgggg 420

attttatggc cttaaccatg gttggggctc attagttggg gg 462

<210> 15102

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-H10

<400> 15102

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cgtcgtagta ccttggtcag ctacttactt attcaagcaa agaagccatg agagctggtg 180
ttagcgccgg acaccggcgg catgtgcggc atctgggagg ccagaatgct ctgcaggagc 240
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ctgctgtagc cgccgaacgg cgacgcggcg gcgtactgct gctgctgcct gtggaccggc 360
ggcgcttcaa ggtgttggtg ctccggtgga agctgtgggc gaagaaggac acgttg 416

<210> 15103
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-H12

<400> 15103

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aat ttgaggc agagaccgac acagatggca gcgggttatgg tgtctcgcca aggccgggag 180
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cgctgtgcta 430

<210> 15104
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H2

<400> 15104

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acagtcctta ggtgttcgat gatatgctcg aactggtggc cgtctaagtt cttgctgaaa 120

togagtcgga gcatgatgtg gttcggttaca cgtgatgcga aggacaagag ccgagttgat 180

cccaaaatga tgctagtga cgaacctaaa gatggatgat ctgatagaat gccagaatgg 240

gaaaatctca ccaagtggtc gtcaattaac aacacttact taatggtatc ccaagggtata 300

at ttgtgtct ggtatggatg ctgctaaatg cccgtgggct caatcttctt atataagtat 360

attccatctt tagcttcttt attgaggatt gtcacttaag ctagcatgta tttgaaaacc 420

tataaatatt ttatacattt taaattgtga ttttttttga atcac 465

<210> 15105

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-H6

<400> 15105

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cctccggggc tacgcgcgc ccagggtccgc ggtggcagcg ctgccgtccg tgagggtggg 180

caggaagagg tcgtcgtcgc agggcatccg ctgcgactac atcgggtccg ccaccaacct 240

gatcatggtg acgacgacga cgctgatgct gttecggggg cggttcgggc tggcgccgctc 300

cgcgaaccgc aaggccacgg cggggctgaa gctggaagcg cgcgactncg gcctgcagac 360

gggtgacccc gccgggttca ccctcgccga cacgctggcc tgcggcgccg tcggccacat 420

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<210> 15106

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H7

<400> 15106

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gctacaccac tcccaggtcc acattggcag ctctaccttc cgtgaggggtg ggcatgaaga 180
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tt 242

<210> 15107
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H8

<400> 15107

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ggcaggccgg cggcgaagag caaggtggtg gcccggtgtc ccgccacaag gaggagcgtc 180
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<210> 15108
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-G10

<400> 15108

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gtgggggttct tgggggtctg ggcatcatng ggcataggca atgtgcgacc atacctnctn 240
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<210> 15109
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-H9

 <400> 15109

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 ccgtgcagtc ggccgtctct aggtcgtcgg cgaggaaggc gcccttcgtc gtcagggcca 180
 gctccagccc ttcagcctag catggtgccg acaggcagct gtggttcgcg tccaagcagt 240
 ccctctgcta cctcgatggc tcgctgcccg ggcactattg cctttaccc 289

<210> 15110
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-E10

 <400> 15110

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 caccatgcgc aagaccgtgg gcaagcccaa ggtggcggcg tccggcagcc cctggtacgg 180
 ccccgaccgc gtcaagtacc tcggcccctt ctccggcgag ccccgagct acctcaccgg 240
 cgagttcccc ggcgactacg gctgggacac cgccgggctg tccgccgacc ccgagacctt 300
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 ctgcgtcttc cccgagctgc tcttccgcaa cggcgctc 397

<210> 15111
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-E12

 <400> 15111

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aaaggggtccc atttgtaatg tcaggaggat cttaaccatc atcaaggcga aacagcttta 120
attctttgtc taaggaccta gaccttcctt cagagcaagg ttgtctctcc attgttgtag 180
ttgggggcttc tgggtgacctt gctaagaaga aaacattccc agccctctac caacctcttt 240
gaccagggat tcatacacat ctggagaagt ccatatattt gggttatg 287

<210> 15112
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-E5

<400> 15112

gttttgagga ttataaatat gaatattgct ttccaattag ctgtttttgc attaattgcg 60
actgcctcag ttttagtaat tagtgtaccc cttgtatttg cttctcctga tggttggtca 120
aataataaaa acgttgtatt ttccggtaca tcattatgga ttggattagt ctttctggta 180
gctattctga attctcttat ttcttgaatt tgtttagtat ttagtaaccc gatacaaaat 240
aaataaaaag aaaggccctt ttctgaaaaa nattaggatt tttatacaca ttaaaatgct 300
attttcgttc cgaattatta cctcttctct ttcatatta tgaaattcta ttgccattag 360
aatattgatt gatagacagt taat 384

<210> 15113
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-E8

<400> 15113

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atgggttagtt gttttattgt gagctttacc tctttgctta tggcatggct taaattttaa 120
aatttactat tgttatcaac caaatccaac ttagcaagct atcattcaat ttactgcatt 180
tttaattggt gtatttcaac tttatttttt tctctcaaac gcgcagaaga gctacacatc 240
attatattaa gagaggaaaa aaggtccaaa gtggaccaaa gtacaatgcc taatgggcag 300

acccgaccag tttgaaaacc ttaaaaatca ggaatagcca aagccctaataaaaagccgca 360
 gcaagggcca gaactatatt cttaagatta gccctattcc aaccacttaa cttattttaa 420
 aaccaacttt 430

<210> 15114
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-E9
 <400> 15114

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 cccggaagcc ggcacataat gaacctaaaa ctctgccaa aagccaaagt caggctactg 120
 gttcaaagac tatttttgtt gggaatttag cctacagtat agagcgtgaa caagttaagg 180
 aatTTTTTga ggaggctggt gaagttgttg atgttcgttt ggctactttt gatgatggga 240
 gtttcaaggg ttttggacat gttgaattcg ctactgttga agctgctcag aaggctcttg 300
 aaattgttgg tcatgacctg a 321

<210> 15115
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-F1
 <400> 15115

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 aagggccttg tcgggaagct cccactactt tttgttagga caagactcac ccccatgccg 120
 tgtcatgcca ttgccacca tccttgggag ctgcagctgc ctatataata ccaacagtgc 180
 cgaagcaaga acatccaccc tgcaccacca ccgcccggga ccagcgtcgt cgaagctgct 240
 cactccatcg ccgctccaag ctgtgagtcc gagcatcaac a 281

<210> 15116
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F10

<400> 15116

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ggctcgagtc tggtagctct tctgagcaaa tcaaccatcc taattctttg gttaaccttt 120
tgaagaacct tgctgctatt gctagcacac atgcatatca agatgttcta aagaatgcaa 180
cttcaatatc atcaaatgat ggtaataatg ctgcaaattg ctctataatg catgagcaaa 240
ccatacggtc aattcctgtc aggagagaat cattagcaga agagcctgcg gtgaaaagac 300
gagtacagga ctttgatttg aacgattcat gcattgaaga ggccgagagc cgaac 355

<210> 15117

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F11

<400> 15117

ggggaggcaa tggttcctga tgatggctgg gaagaatatc tgaacaataa gtgggacagg 60
aatattgttg tagcagaaac tgtgagcttt tctgagctga agcttcagcc agagacagaa 120
cagcgcgccg acaaggctcag cttttttggt gataagaaga atgccagga agtgataaaa 180
tctgttgccg agagattgga caaatgtggg ctagatgcc aataatata tagtggtggc 240
caggaccttg atatattacc tcaaggagct ggaaagggcc aagcacttgc atatttgctt 300
aaaaagctaa gctcatgtgg aaaaccgtcc aacaatactc ttggttgggg tgactctggt 360
aatgatgcag aattattcag catccctggt gtacatggtg tcatggtcag caatgcccaa 420
gaggaactac ttcagtggta cacagaaaat gcga 454

<210> 15118

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F12

<400> 15118

ccataggctg cagccctcca tccacgaact ttcgttctcc atttccagcc atggcggtgt 60

cgagcgagcg caccaaggag tacggctacg tcgtgctggt gctggtggcc tatgtcttcc 120
tcaacctttg gatgggcttc caggctcgga agggccgcag aaagtacaag gtgttctacc 180
ccaccatgta cgccatcgag tcggagaaca aggacgcaa gctcttcaac tgcgtgcaga 240
gggggcacca gaactctcta gagtggatgc cegttttctt cgtcatactg ctgctgggcg 300
gtctgcagca cccgaccatc gccgcgggtc tgggcggcat ctacatcgtc gcgaggggtct 360
tctactccaa gggatacgca accgcggttc cggacaa 397

<210> 15119

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F4

<400> 15119

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gcgtgcacct cctgctgcct cctccaccag tcaaccgcc gccctggcgc gtcgccgcgc 120
ctggccgcgc ccccgccgcg cagcgcccag ctgctcgtct gcaaggcccg gaagcaggaa 180
gccgccgcgg accagagcga cgtctcgcgc cgcgccgcgc tcgcgctcct cgccggcgtc 240
acggggcgcg cgggcgcaa ggtgggtcct gccgccgcgg catccgggga accagccacc 300
gggttcggaa ggccaaaggc aaccccgat tccttgggta ccaggcgac cggtttaagc 360
tggtgatccc gttcaagtgg gacccagca aggagccgga gtttcccggg caggtgctcc 420
gctacgagga caacttcgac gccaacagca atgt 454

<210> 15120

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F5

<400> 15120

gtgaagatga aggaccgttc catctaggcc tgctaattggc aaaaaatcca atccactcgc 60
accggtaccc aaatctaatt actttgatat ccatcccaca cccaaccaa aatactagag 120
ggaagttaaa cccaaccac ccaataacat tattgatccc aaaccaacc gtaattgggt 180

ggaaatccat ggaaaacccg tgggtttaac ttattgtctc acatcgagcc aactgcatac 240
 atatttttaa aatcaaattt taaagcagta aattaattca aataaaaaag ttttcaacta 300
 taaattggaa taactcatca tgatgtccat ttaatatattt gaacatttct tcgtatgata 360
 aactaaaaat aaattgggtc ataaaaccta tatctctctc atagtttatg gaactacgag 420
 agatatgtat agaatttggt catattgtta gaactatc 458

<210> 15121
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F6

<400> 15121

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 gaaacaaaga tgaggcctca gctggtactc gtcggcactc tggctgttct cgccatcctc 120
 gcagctctcg gcgaaggctc gtcgtcctgg ccctgctgca acaactgcgg tgcttgcaac 180
 aagaagcagc cgccggagtg ccagtgcaat gacgtgtcgg tcaacgggtg ccatccggag 240
 tgcataaact gcgtcaaggt cgggtgcagga attcgtcccg gcatgggcca tggccccgtc 300
 gtcacctacc gctgtgacga cgttctcaca aacttctgcc agagcagctg cccggaagcg 360
 ccggcgccat aagccggtgg ccggtggtct cttctgacgt acggcatggg acgccaagtc 420
 gagtttgctt ctctccagtt tcgtcagaga aaagaaatag cttaatgaat a 471

<210> 15122
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F7

<400> 15122

cccaagacac tgagctggtc tgttagttg gaaagccatc tgtacgtttt tcgccgatca 60
 tggaggatga gaggaacacc cagcagcacc agggcggtga gcaggcccag gaccaggaga 120
 acgaggtgaa ggacagggga ctcttgga gctactcgg caggaacaag cagcagcacc 180
 aggagaagaa gaaccagcag gcggaggagg agctggcgac cggcatggaa aaggtcacgg 240

tggccgagcc cgaccacagg gaggagggac acgaggccgc caagaagatg gacagccttt 300
tggccaagct gaaccggacc agttccagtt ccag 334

<210> 15123
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-F8

<400> 15123

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gcgattctcc gatcccaacc agactcatgg tggcgttcat ggcgagcagc ggggccatga 120
acgcgtcgag caggccaacc ttcgtcaccc ctogtagctt ctttaactgg ggcaaaagcg 180
cgagagaaac cgagacgccg ccgcccgcgc tgcagttctc ctaccacgac gtcgagccac 240
cgttccccat gtcgctcgtg gcaaaaacac acctcagaga ccgtgagctc aggtgctgct 300
a 301

<210> 15124
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-G1

<400> 15124

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cgatgcgccg gcatcagagc gcgcgccccg gagccgaaaa gcggggggcg tcatgaagcc 120
cccggccggc gccagcggca agggcggcgc ggtggacccc tctctgccgc ggttcagggtg 180
ccaggagtgc cgccgcgccc tcgtcgtcgt cggggtcgag tctacgccc acagactgcc 240
cgcacacgcc gcgcccggta atcatgcatc ttctggtcaa gggcatggta atggttgag 300
gcagaatgac cacctttaag gtggggctat ttaaccggac caattttaag ggcctagaa 360
ttcttcaagg ccaaccaggg gcagaaccgg acattgctga tccaagccat tcaccagaac 420
cattgaaggg gcaaaattta gggcttc 447

<210> 15125
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-D8

 <400> 15125

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 catttagcga agcggtaggt agcatcacta cgttcttccg ccaagctagt tagtgccaat 120
 ggccactgct gtagcgatgc tcgtggccct ggccctagcc ctagctctga tcgtggctgc 180
 tagcg 185

<210> 15126
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-C10

 <400> 15126

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 cgggcaattg ccaattcaaa taataatata acaccaatgg tggttcccgat catcgacttc 120
 tccaagctgg acgggcgtga gagggccgaa accctggcgc agatcgccaa tggctgcgag 180
 gagtggggat tcttccagct cgtgaaccac ggcatccgcg tggagctgct cgagcgcgctc 240
 aagaaggtgt gtcgcgactg ctaccgnctc cgggaggccg ggttcaaggc gtcggagccg 300
 gtgcgcacgc tggaggcgct cgtcgacgcg gaacggcgcg gcgagggtgt ggcgccggtg 360
 gacgacctgg actgggaaga catcttctac atccacgacg gatgccagtg gccgtccgac 420
 ccgccggcgt tcaaggagac catgcgcgag ta 452

<210> 15127
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-C11

 <400> 15127

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gcgacgtgta cgcaatgagc gtcgtcatgg tggttcgatt ccagggcgtg ttaggattca 120
tcgtgatcac atgagcggcg atgcaagaat ccgagcggac tactttggag ccaacccggg 180
gtacacggat gctcaatttc gtaggaggtt ccgcatgcgt cgccatgtct ttgagcgctt 240
tgttgatggt gtgcaacaag tggatcctta ttttattcag cgtccaaatt gtgcgggtga 300
gattggctct tctgctctac agaaagtgtg tgctgctggt cgaatccttg cttacgggtat 360
tccggctgat gccgttgacg aatacgtacg tattggggaa tctactgctc atgaggcatt 420
gaaacacttt tgcacggt 438

<210> 15128
<211> 381
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-023-Q1-K1-C12
<400> 15128

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agagccgccg cgtcgccgcg acgagcggtc cttctgccta gtttctccgc ccagcgagcg 120
gcgggttcct cggagattcc cgctggccgc ggggatccat ttggtgagtt gggagccgga 180
gctccgattt ggcggtttcc ctttgggagg tcgtctgatt gaccggcggc ggcggtttgc 240
tttgtggatg cagtgactgc tcgcgttgcg cctggatctg gtttgggacg gaggagtga 300
acgcgacggg gatcgtgcga ggtggggacg ccatcagtgc tctgtctggg gtcggtctgt 360
tctttggctg cagatctgga a 381

<210> 15129
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-023-Q1-K1-C2
<400> 15129

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tgcataccaa gatttgtgtg tggcatctga gtgtaatttg gaaccatggc gcagagctgc 120

tttcttttgag gaatctggtg aaacttataa aagaatcgtg acaacttggt tgaagccact 180
tgaggagttt acttcaaaaa ttgctgaagc ccttgaaaga ttttctagtg ataagccaga 240
attgatgcta caacagtcca aactctgtag tgcatttgat gatttccaga tatgcgcatg 300
gtgtgctcgg acattgactg ggtaactgc gtgctcacgc caagaagatc ggtat 355

<210> 15130

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C4

<400> 15130

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atggagctga acagcatccc ctatattgcg tctgtggtctt cctcctcgag ctgcttctac 120
tacagctaca gtcgctgcgc ctgcagaggt acaagagatg ggaagctggt aacaaaagct 180
tctgcagctg gtcgtaagcg tgctgctgat tcagtatggt cacaactctc tgagcaggga 240
actgaagatt ccatttcagg tcttagatct tcttggcgta taaagaggag agaccttgct 300
tctgccatth tactccctth tctgattcct cgtgttaaca tctctatcgc ggctgagata 360
tacgacgcat caattattcg aagtgggtg aagagtgggt taac 404

<210> 15131

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-C5

<400> 15131

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aaggcatggc gtcgatgaca ggctctcgc agggcgctct gccagcagg cgcgccgaca 120
gcagaaccag gacggccgct gtcgtcgtca gggcgctccg ggagggcgac gccgttgcg 180
aagcggggcg tcgcgccgtg atcgggcttg tggccactgg catcgctcgg gcgccttgt 240
cgcaagcggc gcgcgccgag accgtcaaga ccatcaagat tggagccccg tcgtcgnct 300
tcggtggact ccccgggact ctcaactctg accaggcgag ggacttcgac cttcccttga 360

aggagcggtt ctacctgc

378

<210> 15132

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C6

<400> 15132

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catggcgctcg atgacaggcc tctcgcaggc cgtcctgccc agcaggcgcg ccgacagcag 120

aaccaggacg gccgtcgtcg tcgtcagggc gtccgcggag ggcgacgccg ttgcgcaggc 180

gggccgcgcg gccgtgatcg ggcttgtggc cactggcatc gtcggcgccg ccttgtcgca 240

ggcggcgccg gccgagaccg tcaagaccat caagattgga gccccgccg cgccctccgg 300

tggactcccc gggactctca actctgacca ggcgagggac ttcgacctcc ccttgaaaga 360

gcggttctac ctgcagccgc tgccgccggc ggaggcggcg gcgagggtaa agacgtcggc 420

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<210> 15133

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C7

<400> 15133

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gctaccaagc tactagtagt cttcttggtc acgttggtga ttgcagcggc cgagcacaca 120

caagctagct agctagccgc tagagctagg gtcgtcggat agatcgacat ggccggcagg 180

gacagggagc cgctggtggt tggtagggtg gggcgacgt gctggacccc ttcgtccgga 240

ccaccaacct cagggtcagc ta 262

<210> 15134

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C8

<400> 15134

cacaaccaga agccacccat tggcgtacgc gaggcgatcg gagcatcccg tcccaagagg 60
agagactccg gccggcgacg cgggggaaaa tggggaagac gccggtgcgg atgaaggcgg 120
tggtgtacgc gctgtcgccc ttccagcaga aggtgatgcc ggggctgtgg aaggacatca 180
ccaccaagat ccaccacaag gtcaccgaga actggatctc cgccacgctc ctctcacc 240
ccgtcgtcgg cacctaccaa tacgccatgt ggtacaaaga gcaggagaag ctttcccaca 300
gatactaaat gggatgtcct ccaagttgct gcggcttgct gcagttgaat tttccatgat 360
gggttgata atctgtcaat gtcatttctt tgctcagttt tagttcaacc cattttcacc 420
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<210> 15135

<211> 250

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-D10

<400> 15135

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ggcatccccc acaacgcccc actgcacagc atatcggccg cgtcatccat gcacggcgtg 120
cagaggctgg acttctccga cttctccagg ctcaagcctg agtcgtgctc cgtgagcgct 180
gccgcgcggg aagcgtcctt ctccgacatc cttggcgcgc agtcgtctc caatgccaca 240
cgagagaacg 250

<210> 15136

<211> 311

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-D12

<400> 15136

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ttggctcctgc tggccgttgc ctccgtcgtc gccgcccgcg gctcgtggga gaatggatat 120
 gggagcatcc tccgcctccc ctccctcgtc ccgcgcgcgt tcccccgctc cgcgggcgctc 180
 gacctgatcc acgcgtcaa cctncacccc gccgacgcgt cccctcccct ctccaccgcc 240
 ggcgtagagg gcgccctcgc ccccgccggg accctcgtcg agaggcccat ccgcatcgcg 300
 tccttcgcga a 311

<210> 15137
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-D2

<400> 15137
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 aaactgctgg ctactggtgg tcatgataaa aaggtcactt tgtggtgtaa agattctctg 180
 aaccctaaat cttatctgaa agagcactcg tttcttatca ctgatgttag aattagccca 240
 agcatgtcac gccttgctac atnccctctt gacaaaactg ggccggtttg ggatgccgaa 300
 tattccgact attcactaac aactttcacg ggccattcaa caacttgat ggcaacttgg 360
 tttcatccca attaagaggg tatgatatgc tcctgggata gtgatgggga aattcccaac 420
 ttgagcctta ataatggtag ctggttgaca 450

<210> 15138
 <211> 85
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-D3

<400> 15138
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 ccaggacaaa cggtgaagca aggtg 85

<210> 15139

<211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-D5

 <400> 15139

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 ttcggagggt tcggttgcga cagcacgacg gtgaccaaca tcctggcgca ccgcgacgcg 120
 acacagcgcg cgctgatcca gcaggagtac cgggccgtgt ttaaccagga cctggcccgg 180
 cgcacgcgt ccgagctgag cggccaccac aagcgggga tgctgctgtg gatcctggac 240
 ccggccaccc gcgacgccac catcctgaag caggcgctca cggcgacat caccaacctg 300
 cgggc 305

<210> 15140
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-D6

 <400> 15140

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 cggcacggcg gcgcaggga cggacgacaa ggactacaag gagccccgc cggcgccgct 180
 cttcgagccc gngagctca agtcctggtc cttctaccgc gccggcatcg ccgagttcgt 240
 cgccaccttc ctcttctct acatctccat cctcaccgtc atgggcgtct ccaagtccac 300
 ctncagtgc gccaccgtcg gcatccaggg catcgnctgg tccttcggcg catgatcttc 360
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 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-D7

<400> 15141

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tgccaatggc gagggctgtg gcgatgctcg tggccctggc cctggccctg gctctgatcg 180
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gcgccccggc gatcatcagc ggttctgcag ccacggctta ctgctgatat aacctgcgcg 300
ctcacgaacc gtgcttttgc cagttcgcgc gcaaccggc atatagcaac tacgtcaaca 360
gccttaacgc ccagcttacg cttacctgct ggggcatagc cgtcccgagc tgctatggct 420
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<210> 15142

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C1

<400> 15142

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caaccccagg gctctccgga agctgaagac cgcttgtagg agggcgaaga ggactctgtc 180
ttccactgcc cagaccacga ttgagattga ctgctgtat gagggcatcg acttctactc 240
caccatcacc cgtgccaggt ttgaggagct caacatggac ctgttcaaga agtgcattga 300
gcctgttgag aagtgcctga gggatgcca gatggacaag agcaccgtcc atgacgttgt 360
acttggttgt ggctccacta ggatccccag ggtgcagcaa ctgctccagg acttcttcaa 420
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<210> 15143

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A11

<400> 15143

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aatggcttac aagcatatgc agtgaccttg ataacttacc ttggtttgtg gtgggttcggt 180
atatttaacc ctgcaatagt gtatgatcac ttgggggaga tatactctgc tcttggtttt 240
ggaagctttg tattctgtat ttttctctac ataaagggcc atgtatttcc atcttcatct 300
gactctggat cctctgggaa tgtgataatt gacttctact ggggtatgga gctgtaccct 360
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tgggctgttc ttgccgtaac ctattgcata aagcagtatg aa 462

<210> 15144
<211> 163
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-023-Q1-K1-A3
<400> 15144

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cctaccacaa accaaaacta cctctttact tcaacctcac ccc 163

<210> 15145
<211> 458
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 15145

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gccctcccag ctgatctcc ttcgagccgt aacggccccc tagcgtgcct tcccagccgc 180
tcagcaccgc tccagctcgc cgtggccacc gttgcacatg gccatgtcaa gctggccgct 240
cctgctcctt ccatcatcga cctcacacag cgcgcacctc ggccatatcc tcatctctgc 300

atcgacgcgc tctgaccctg ctgtcgctgg tgaaggcca cagcgctcgt cgtttgcac 360
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gctcatcaga tctgcgccang ggccctgcgc gacgtcac 458

<210> 15146
<211> 452
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 15146

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gaagcatggt tcgctcccaa ggacaaccac agttcattct aatccaatcc ctccaaatgg 120
aacctcccag gttcctcaaa agattccac aggtagacca ggaagagtgg ttggtccagt 180
aataccattt gagaacgcag ctgcagtga tccatacagc caacgtaagg tctcaaggaa 240
tccagtactt nctccaacca cgtcgaacaa tgtagcctat gcctaccacc cgaaggtaga 300
ccacttaaac cgaaaacttc caccagaacc tgaaaaagga ccgaatgcag taccagccag 360
aacagcgggt catggacgcc aaggtagtat cacagatgtc ccctgacttg aggtcttcct 420
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<210> 15147
<211> 363
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-023-Q1-K1-B1
<400> 15147

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ttcttggccc tgacccctcc tccccgcgc cggcgccgcg tgagcacgcc gcgcttggct 180
tgatgctcga cttctgcgc cccacgggc ccgccaagct cccggttgcg tctgtcgtg 240
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aca

363

<210> 15148
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B12

<400> 15148

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gcgtggtgat cctggacggc tccacggtgc ggggcttcgt ggaggacgag gcggccttcg 180
cgcgacagcct ggacgcgcgg ttgcgcgcgc tggacgcaa cgaggacggc gtgctgtccc 240
gcgccgagct ccggcgcgcg ctcgagtcct tccgcctcct cgacggcggc ggcttcgggt 300
ccgcccagcc ggcgccgctc ccgcccagg tcgcgcgct ctacgacgcc gtcttcgagc 360
agttcgacgc cgaccacagc ggcgccgctg acccgcgcca gttccacgac gagatgcgcc 420
gcatcatgct cgccgtcgcc gacgggc 447

<210> 15149
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B2

<400> 15149

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aagattctct gccaaactgca agaccatgag aggatccgca ccatctcctt cgacgacaag 180
agcaagacgg tcaccatggt gggcccgttc gaccgcgagc ggctcgcgtg caagctccgc 240
tgcaagggcg gcaaggtggt gcgggacgtc tacatcgtcg acgccaacgg gc 292

<210> 15150
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B5

<400> 15150

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gtggaactga tccctggcat ccccgacgac gtggccgtgg actgcctggc gcgcgtcccc 180
cacgcctccc accgcgcgat gcgcccgggtc tgccgcggct ggaggagcgc cgccgcggcg 240
ccggccttcg cgtcggcgcg cgccgcggcg ggcgccaacg aggacctcgt gtacctcatg 300
cagttcggga acccggtccg cgacgacggg gccaaggag ggcgacgacg gccccggagc 360
accccggcgt acggcgtgcc ggtgtacaac gtgacaacgg ccgagtggcg gcggtagcgc 420
ggcgcgcccc ccgtggtgcc ggtgttcg 448

<210> 15151

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B9

<400> 15151

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catgaccaac cgctctctgg cccgcaagca attcgtgctt gaggtgatcc accccggccg 180
cgccaacgtc tccaaggcgg agttgaagga gaggcttgcc aaggcgtacg aggtgaagga 240
cccaaacc accatcttct tcaagttccg caccacttc ggaggaggaa agtccactgg 300
tttcggcctc atctacgaca acctggaggc tgccaagaag ttcaagccga aataccgcct 360
aatcaggaat ggccttgc 378

<210> 15152

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A1

<400> 15152

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 tcgggttggg cggcaaggcg aagcctgctc cgaagaaggt ggccaagaca tcgacctcct 180
 ctgaccggcc gctgtggttc cccggcgccg tggcgcccga ctacctggac ggctcgctgg 240
 tcggcgactc cgggttcgac ccgttcggtc tcgggaagcc cgtggagtac ctgcagttcg 300
 agttggactc gcttgaccag aacctggcca agattgaggc cggcggcac ctcggcacc 360
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<210> 15153

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F3

<400> 15153

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 gcgccggcga gatggagctc aagcccggca tgtcggcgct cgtcaccggc ggcgctccg 180
 gcatcgggaa agcactttgt attgcttttg caaggagggg tttatttgtg actgtcgttg 240
 atttctcaga ggaaaatgga ggagaagtgg ctacataagt tcaaaaggaa attgccaaat 300
 tcaacgagaa tttaaaaatc ccattccat aattggtaag tgggaaggta ggaatgccga 360
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<210> 15154

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F4

<400> 15154

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 cgacggcgag cgccgcggcc tcggtgacgc cttcgccgcg gccgatacca ggcagctacg 180

ggccaccggt gctgggcccg ctacgggacc ggctcgacta cttctggttc cagagccagg 240
 acgagttctt ccggaagcgc gcggcggcac accgcagcac cgtgttccgc accaacattc 300
 cggccacctt tccct 315

<210> 15155
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-F5
 <400> 15155

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 gcaccacaag aaggccgagg agcaccacaa gaaggaggag ggggagcacc acaagaagga 180
 cggcggggag cacaaggaag gcatcgtgga gaagatcaag gacaagatca ccggcgagca 240
 cggcgacaag tccggcgccc acaaggagag gaaggacagg aggaagaagg ttaaga 296

<210> 15156
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-F6
 <400> 15156

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 agaagtaccc tgacctggag gagacgagca ccgccgcgca ggccaccgtc gtctctggcg 180
 tggccccgga gaagaaggcc gcgcccaggt tcgtcgaggg cgcggcggag tccggcgagg 240
 gccgccacgg ctgcaacttc ggtggccact tcaagtgcc accctggaac tggatgatcac 300
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 ttattaacca aggccaacct gcttg 385

<210> 15157
 <211> 223

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-F7
 <400> 15157
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 atggaatgta ctgcatggtg gaaagagttg ttactactc ataactggtg aacattatcc 120
 gcaacatgta tctaccctt cctctttcgg acaattgtgc acatgacaag ctcgtttgtt 180
 ctaccctacc aagtatcata cgagaacata gaaagcataa tca 223

<210> 15158
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-F8
 <400> 15158
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 tcctcaaggg cgtaaagtgg tccgccgacg ggtcctnctt ccttaacagg ctcgacgata 300
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<210> 15159
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 <212> DNA
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 taagtcgttt aatagaaaat ggaaagaaac catcaaactt ggcgtccagt catgaaactc 180

cattatcagt gggagaaatt cttttgtctt tggatgctgg agttccatta cctggtcgtg 240
cagctgaata 250

<210> 15160
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-G10

<400> 15160

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atactaccta gctattaact acggccaaac aaacaactcg atc 163

<210> 15161
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-G4

<400> 15161

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gatccgttcg tgtacceaaag tcccagccta gatgcgcgag atggaggggt ccaactgatca 180
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gaccggctct tccagtcgcc ttaacgcgca ggccccgaa ttcgtgcccc gggggccggc 300
ggcaccggca ccggcgggtg ggctggcggc ttcggcggaa gtgatccgga tggtcgcccg 360
gccttccccg gcggcgcgtg gggg 384

<210> 15162
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-G8

<400> 15162

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gcccgcgctg ttaccgtcgg ccgaggcgcc aggatgttcg ggtaccagaa tggccttgac 120
gtcgaggccg cgacatccag agccgacgcc actgatggag cgcgcc 166

<210> 15163
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-022-Q1-K1-H11
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gtcgtcagca gcttcgacca gatgggcatt aaggacgacc tcctccgcgg catctacggc 180
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<210> 15164
<211> 68
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-022-Q1-K1-H2
<400> 15164

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aagcaact 68

<210> 15165
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-022-Q1-K1-H4

<400> 15165

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gggacttcgg cttegatccg ctgggcctcg cgaccgtgcc ggagaacttc gagcggttca 240

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cgggaagctct tggcctgggc aactgggtga aagcgcaaga atgggcgggc gtccccggcg 360

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<210> 15166

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H5

<400> 15166

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agcttaacgt cccatggcga gccaggatgat gaagagcagc ctcgctcgtgc actcgaggcc 180

gagggggcctg tcaggcgtg ctgcgctcac gaggcggccc ggccggttaa ccgtcaaggc 240

catccagccc gagaaggcaa cgtaccaggt ggtgcagcca atcaacggcg accctttaat 300

cgggaagcttg aaaacgccg taacttgaag ccggttggtg gcttggtact tttcaaactt 360

tcgggcttac ggaacggcc 379

<210> 15167

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H6

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tatgcgcaag actagtagat ggcattggagt atagaaggcc ggcaccactg ttctaggaag 420
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<210> 15168

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H8

<400> 15168

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agaaaaagaa gaaggttgct atccaagaac cttctgatga agtggacaag cttgcaaaag 240
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<210> 15169

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H9

<400> 15169

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aa 302

<210> 15170
<211> 399
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-022-Q1-K1-F2
<400> 15170

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tactgaagca tacaagtggg tggcacttgc tgcaaagcag caacattact cagcttacia 180
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aaaggaactt tttgaacttg cagccgagaa taaggaagct gggggacatt ataaccttgg 300
gtgtgtgtat cttaagggtg ttggtgtgaa aagggatgta attagagcct gccatctttt 360
ggttcatgca attaatgctt ggcaacccaa agctattta 399

<210> 15171
<211> 252
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-D3
<400> 15171

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cgtgagcacc ttccagagct gccccattgc cagaagagca aagatcaaca ccagggtccag 120
gggcagcagc agtagcgtgg cgaaggggtc accaccacca gccttccagt tccagtgcag 180
ggcgtcgact ttgcggcgcg acaccagcct nccgctcgag ctggacgaga accccgaggg 240
gatcatctgg gg 252

<210> 15172
<211> 402

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-D5

<400> 15172

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ttcgcggaac tgagctggga ggagttccgt gcgacccggc tcggcgagag ccagaactgc   180
tccgccacgc ttaccggcaa ccaccggatg cgcgcgcgncg ncgttgcgct gccggagacg   240
aaagactgga gggaggatgg gattgtgagc ccagtgaaga accagggcca ctgtggatct   300
tcctgaacct taacaactac tgggccactg gaggctgctt atccaagcc acctgccagg   360
ccaatttctt tttttagcca ccacttaatg accggggggt tg                       402
  
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<210> 15173
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-D7

<400> 15173

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aaaaataatt ggtatctaac tcagaactga tggagaattt ggttgtgagc acatgacatg   180
ggtagagaaa tggttatctg gcaactgcat ttgttagccc aaatgctatg tcaattgctg   240
atgttgagga aatccacaat cttgcatgcc cacctccttg tcaaaaatga agggcccat   300
taggatccgg ccaatgagga tttggcagga ttaatatcaa ccgggggcct taacaaattt   360
ggcaggggta aaattaaggg gaatccaaca ttttttaat                       399
  
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<210> 15174
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-D9

<400> 15174

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ctgttttcgcy atcgccagcy accggcggct gggcgtgcag cttcagacca tcgcyacaga 180

ctttcagcgg gtgttcaagg gccacgacaa gctttacatc ggctctctg ggcttgccac 240

tgacgcccag acgctttacc agccgttggg gttcaagcac aagctgtatt aactgtcggg 300

ggaaa 305

<210> 15175

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E1

<400> 15175

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tcaaattttt ccttgcttta aacatcttct ttatcatctt atgagttcaa aaaataattg 120

gtatctaact taaaactgaa tgagaatttg gttgttagca cattacattg gttgagaaaa 180

tgatatcttg ctactgcatt ttttaaccca aatgctatct caattcctta ttataatgaa 240

attcacaatt t 251

<210> 15176

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E11

<400> 15176

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cgcgacgcca ccatgaagtt caacatcgcy aaccgctcta ccgggtgcca gaagaagctg 120

gaaatcgatg acgaccagaa actacgtgcc ttttatgacc gaaggatctc ccaggaggctc 180

agtggatgat ctctgggtga ggagttaaag gggttatgtc tcaagatcat ggggtggatg 240

gacaaacaag gcttcccaat gaaacaagga gttctgcctt ctgggtccgtg t 291

<210> 15177
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-E12

 <400> 15177

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 atatgaacta aactgaattg aggacgatat ggcccgttg gtctcttccg gaatcattgg 120
 taaggggcac aacatctttg acgatggcgg attcggtgaa gtccatgctg acccaataaa 180
 gtcgagcg 188

<210> 15178
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-E2

 <400> 15178

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 gccgtgtcga cgcaagcctc cgccgccacg cgccacctgc tggccgccgc ctggggcgccg 120
 ggggcgaagc cgggcgagct gagctcgcag ctgcgctgc cgtcgctcgc ctcccgcggg 180
 ccggccccgc tccgcgcgtc caccgaggag gcggtggagg cgcccaaggg gttcgtggcc 240
 ccgcagctgg accccagcac gccgtccccg atctttggc 279

<210> 15179
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-E3

 <400> 15179

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 ctggtctcca tgatcgagct tggcaagatc ctcggcgcgc ggggactgtc cgtaataatt 180

gtcgtcgtcg agccttcctt caacacgggc gctacggcgc ctttcctcgc cggcggtttcc 240
 ggggccaacc cgtccatttc cttcaacggc ttgcccaaag tcaagcgctt ccggccggta 300
 aggaccaacc ccaagaaggg cttaactttc aaggcaaccg ggttttccaa ccggaacttc 360
 gggaagttct tggcggcggg ttccca 386

<210> 15180
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-E4
 <400> 15180

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 caggggtacg catgctggtt ccagttcggg accagagaca gaagactgca tggacattcc 180
 tagaaccttt aacagctgat ctatggtttg gaactggatc cttcgttgtc ttcacagggt 240
 ttatagtttg gtttatcgag cacaagacgg aataagaatt caaaagaacc gcaggcagtc 300
 aaattggatc aagcttctaa ttcttcttct taacacttgg atttgctcat aaggagagga 360
 ttgtgaacca tttatcaaga attgcaatag ttggttggtt tttgtgggt ctaatatt 418

<210> 15181
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-022-Q1-K1-E5
 <400> 15181

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 gtagtggagc aaggatcaac tttcagtgcc ataatgaaga tgtagtgaa aggcgatctg 120
 gagtggttgt tcgcattagt gaaatagatc ccatgaaatg gcctggctcg aagtggagaa 180
 gcctgctggt aagatgggag gacggtgctg aatgtaatgg ccaaaataga gtatctccat 240
 gggagatcga gatagctggt ggttctgtct ctgtttctaa ttctcttctt gcacttagtt 300
 ctaaaggacc caagttgggt cctaagggaa atttgaacgt tcaaccattg tgaaatggtg 360

gtactgactc attggaacct ggaaggttac caag

394

<210> 15182

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E6

<400> 15182

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gcgggtggat tgcttctcta gtggcttcgg ggttttcggg tgtcccgatt gcatctcaga 120

catggaaggc ttactttggg ctaatgcgaa gtgaaacacc aaaggatgat agcagacaag 180

ctgcttcaat tttgctccct gacaaagatc agtccttgaa gttggaaaaa caccatgggc 240

gagcagaggc tcttctgtta acagcctatg ggaaaaggct tggctctggc tctgggaagg 300

tcaacaaaac cttaatttga tggctattgt gattgccaat tgacctgcc tttttttggg 360

g 361

<210> 15183

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E8

<400> 15183

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ctggaacacc aggaagagga tcttcggaag aaaaaagaag ctgagccagt tttagtctgc 120

cttcagcgac tctcggacag ccggcactct gatgattatg ccctgaacag agcactccgc 180

gatcgtctta ggagccaaaa aaaagagagt tgctgaagag aagaagtccg cgagaaagat 240

aggccttggt gttccggtct tggcttcctt cggaaaaaaa tccaacggaa cgggttcaat 300

ggaagttgga ttggaatttg ggaaaagccg aagggttag aaggcccgaa ttaaagggtg 360

cttcactttt tcggagtcac taagctt 387

<210> 15184

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-022-Q1-K1-F1

<400> 15184

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atggtgcca gccgagctct atcccccttc tgccatggcc gacgcccctc cctgctgcag 180

ctcgatgcc tncctgcag caagcagtgc cctccccttt ctgcaccaag tgggtgcccc 240

cagcccttcc ttggttccaa tggccggccc cttttgctgt tccaatgggg acctttaaat 300

cccttttggg ttaactagtc ctggtaaaaa ccctgttaat ttaagggtta aggggggtga 360

atggggccaa attgaagtaa aaccctggaa aattaagggtg aaaaaaagg taaggccaac 420

ccttctaag gggt 434

<210> 15185

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F10

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cgtgtgcggt tctgccacgt gtcacgtaat cgacgtttcc ccgccttccg cggttctgcc 120

gtcgtgcgcy cgtcacgccg tcacctgacc ctcatgacag cacgaatccc aaagcagaag 180

gcaaaaaccc cgtcatecca gcccagggc ccaggctccc ggatcgtcta atcaatccc 240

cattccccat tgcacgccgt ctccgctagg gttttactcc gcagccacac c 291

<210> 15186

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-022-Q1-K1-F11

<400> 15186

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gcgccccggc ggcggtaggg tgcgtcggct gggcatggag gccgactccg aggccgcgcg 120
gnggagggag ggcagcaggg gtgtcgccca agtgctcgca ctcggcggcg gcggcgggag 180
cggtacagtc ggaggaccgc cgccgcgagg tgctgtaccg cccggaggag ctgcccggga 240
cggggtacgg gtcggagctg gaagcgcgga tcgagaaagt catctacgcc tgccgcttca 300
tgaccttctt cggaattgt ggcttgetcc tgggtctgt cccatg 346

<210> 15187

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-F12

<400> 15187

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cctgggtctc tgcgtctcgc tctcgtctcg tcttcgcgcc gcccgccacc acctgcaggc 120
tatactagct agctattaag tccggccaac caagcagctc gatcaggtcg gtcgacggcg 180
gggacagttc ggagggagga ggcggccgga gaccgaagga cgcctaccat caactcgcg 240
tcttgccgcg gctgccaaaa aataa 265

<210> 15188

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-D2

<400> 15188

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cgggcaggag gaagaggaag aagaagcggc agcgagcgag gatgccgtgc ctgaacgtgt 120
cgaccaacgt gaacctggag ggggtggaca ccttcgccat cctcgccgaa gcctccaagt 180
ccgtcgccaa catcatcggc aagcccagag cctacgtgat ggttggttctc 230

<210> 15189

<211> 250

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-022-Q1-K1-B2

<400> 15189

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cccgtttacc gctccctcag ctgccccgag ctccctgccct gctcgccgtg ctaaccgtct 120

atgtcgctgc cggacttgct tctcgacca tcttgggctt gntatttctt gctgctccat 180

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<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-B3

<400> 15190

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agcagaggaa gttcctccag agatccctga accagctttg ggtataaact ttgctaggga 120

tggcatgaac gagaaggatt ggttggcgtt agttgctgct cacagcgatg cctgggtact 180

agctgttgca ttctactttg cagcccgggt tgggtttgac aaagaggcca ggcggcgact 240

cttaacatga taaataactt gccacaata ttt 273

<210> 15191

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-B6

<400> 15191

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ccgctccctc agctcgcccg agctcctgcc ctgctcgccg tgctaaccgt ctatgtcgct 120

accggacttg tctcctcgac catcttggcg ttgatatttc ctgctgctcc atgacatcgt 180

ccagccattc tcagttgctc gccgtcaaag ctcccctgtt 220

<210> 15192
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-B7

 <400> 15192

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 gatgacaacg atctggagct gaacgcggag tcccacttcc tgagcttcgt gcagcggttc 180
 ggcaagtcct acaaggacgc cgacgagcac gcgtaccggc tgtccgtttt cagggccaac 240
 ctgccccgcg cgccccggca caatctgctg aacccttcgg ggaaccacgg gtcactaaag 300
 ttttcgaact taaccggga aaattccgc ggaactaact tgggcttcgg aagttccggc 360
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<210> 15193
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-B8

 <400> 15193

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 aaagcctcta tgagcagaag cccgaggaac cagctccgt cctgccatca tcggtgattg 180
 agagtactac aactaggagc aaatcacata ctttccgatt tgattacctt gaaaatgcaa 240
 ctgctcttaa aaatgggaat agcttaaaaa ggaaccacct gaatggacct tttgcaaccc 300
 caatggcgtc aaacttcttt gctgaatttg ggattgacag tggatattag aaaaaatcta 360
 cgttcaagtc attcaaagtg cagatcgagg aaagcacgga agccagacag aaattcttaa 420
 aagcgaaatc aatttcttcc tctcagattt tt 452

<210> 15194
 <211> 453

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-B9

 <400> 15194

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 gaggagggct tatttattct ctacaaaggc atcaatctct tgtacttgaa gaaccaaata 180
 ttaggagcag aagatgaaaa cgccgggtcac tgaagtaatt acaaggaccc actggaatgc 240
 attctctatt tcgaaaactg atgtctcaaa gttcatcccg aatatcccag catccactcc 300
 gaaaatggcc acaacaaatg ttgcggtcgt tagcagcaat tcaaactgga tcagctggtt 360
 ccgcacattg tccagctgaa tgttgatgaa gtcttcagtg tcatcgatgt actctttaag 420
 cgatgtcagc ttgttcagag tgctgtcgat aac 453

<210> 15195
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-C1

 <400> 15195

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 cgcacgccat gctcatcctg gctatgacct acatgcggct gcgctagctg atgtcctgca 180
 ctgcacgtg cagtgggtata cgagaggccg tcacgacgga cccgct 226

<210> 15196
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-C11

 <400> 15196

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attgccgcgcg attcctccgc ccgttcagtc cagcaaccct tgctgctgca gtgctgcggc 120
tagttcgggtg gcggggaagg aggaggaggc gagatcttgg agtggggcga agcggagatg 180
tcgttgccgt cgaacaaccg gaggacgtgc tcccggagca gctctgcgcg gtccaagcac 240
agcgcgcggg tgggtggcaca gacgcccgtg gacgcgcagc tgcacgccga gttcgagggc 300
tcccagcgcc acttcgacta ctctctgctc gtggggc 337

<210> 15197

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C12

<400> 15197

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gaggcgcccc ccacggccaa ggccaagaag gagtccaaga agcaggagga gggcgctcgc 120
accaacctat acaagcccaa ggagccgtac gtcggcaggc gcctttctcaa caccaagatc 180
accggcgacg acgcgccggt ggagacgtgg cacatggtct tcagcaccga aggcattgatc 240
ccgtacagag aaggccagtc catcggcgct atcgt 275

<210> 15198

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C3

<400> 15198

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tcaggcacia ggacgcaaac agcgaacaat gacttgcgtt tttggagtga gcggaattcg 180
atgtatggta atccaagtga ccaacagcag ggtttcagct ttggggcaaa cacatcaagt 240
tgggtgaacc agccactttc ccaggttgga caggcacgaa tgggtcaaggc ggattccacc 300
ggtggtccat ttggttttaa ggagacttga gaaagccatg ggttcaaaat atttggtttc 360
caaggtgatt ccacccattc attaat 387

<210> 15199
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C4

<400> 15199

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tctgcgatcg attccattcc atgcatcgaa gctgcatcag ggccatgacg atggcagcta 120
cgacgactat gatctcagca tcagcgcgatg cgtcgacgtc gcagctgccg acggagttcc 180
ggttccaccc gaccgacgag gagctcatcc tgcacta 217

<210> 15200
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-C5

<400> 15200

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ctggcgcgcg acgccgcgga gcagctgcgg ctgccgcggg ccggcacgtc ggcgtcggcg 180
tcggcgctcgt cgtcgccgtg gcgcggggcg gaggaccacc tncacggcca cggcaagacg 240
gccaaggtga tgcacctgct gctctgggga cccaagtga gggcgagag gccacccgac 300
cggccgcggt gctcggtttg ctctggccgg caatcgggcc ggaaggactg gactggaccg 360
gacctattca cctatatact acgacctgca catg 394

<210> 15201
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C6

<400> 15201

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ggcgtggcgg cggcagtgtc ccgggctccc agcggcacag tcgtgcggcg cgagcgcagc 120
ctctgtgect aggctgcgcc tgcacgtcgg cggcgccac gcggtggcta ataggctgga 180
ggcactgccc gagcggctgc ccaccagtgg tccagctccc actat 225

<210> 15202

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C8

<400> 15202

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cgagggatta tttgcacaga aaactattga aatcactgat gaagctcttc catcctataa 120
aaatcaaggt ggttatgaca tgcttggtcg tacaagggat cagatcaaaa caactgaacc 180
ggtaaagggc accataaggt catggtaagc attggaattg gacccttctg gtattaatgg 240
aagggttaaa ttcaacaacg gttcctgtta acttggttaa acctttgctt aattgaaatg 300
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<210> 15203

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-D10

<400> 15203

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tcggcgccaa tggttacta ccaggaggtg gactactgct cggaggaggt gaggtcgggtg 120
gccccggccg gcttcggccg ccacggaggc ggcgtccagc agcacgtcgt caaggagaag 180
ttcgaggagg tcgacacggt ctcacgcgcc ggcgccaacc accaccacca ccaccatggt 240
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<210> 15204

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-D11

<400> 15204

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gagggcacac cacctttccc cactccgata gaatcgatgg ccgccgaggg cgagaagaag 120
atgataacct tcaaaagctc cgatggcgag gagttcgagg tggaagaggc ggtggcgatg 180
gagtcgcaga ccatccgcca catgatcgag gatgactgcy ccgacaacgg catccctctt 240
cctaacgtca actccaagat cctatccaag gtaatcgagt actgcaacat gcacgtaca 299

<210> 15205

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-D12

<400> 15205

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gttgtcaaga ctgagttgta cacactaact ggtgtgccac ctgaacgcca aaaaattatg 120
gtgaaggag gaatattgaa ggacgatgca gattggtcta ctttgggagt gaaagatggc 180
caaaagttga tgatgatagg cacggctgat gagattgtga aagctccgga gaa 233

<210> 15206

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-H12

<400> 15206

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caggcacaca gctagctagc agatcgtttc gagtgaagat ccaaagaggt agagagatgg 120
aaaggatgag ttctgctgctg cagtactggg tggaggagca caagctctca accatcgag 180
ccgtgtgggc gacagcggtg ggcgcgtctg tggcgtagc cccgcggcag gcgccggcgc 240
aggcgaccgg catgc 255

<210> 15207
 <211> 157
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-H2

 <400> 15207

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 cagagctgcc ccattgccag aacagcacag atcaacacca gacccatggg cagcaaaagc 120
 agcctggcga aagggtcacc accaccaacc ttacagt 157

<210> 15208
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-021-Q1-K1-H6

 <400> 15208

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 caccaggtcc aggggcagca gcagtagcgt ggcgaagggg tcaccaccac cagccttcca 180
 gttccagtgc agggcgctga ctttcgcggc ggacaaccac ctncggctcg agctggacga 240
 gaaccccgaa gcgatcatct cgggggcctt gcccggaac tgetcccttc ttagctacga 300
 cgaccttcgg gcctacctcg agtcgcaaga gacggcggcc caagcagacg atcagcgcg 360
 cgtggcg 367

<210> 15209
 <211> 151
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-A1

 <400> 15209

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 aaggccagat ttctctagtt ttcattcctt atcatactac cattgcttaa cctgacctga 120

acaaaattga ataccttatg gcagtgttca a

151

<210> 15210

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A11

<400> 15210

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caggatggga agaccataaa acttcaaata acgtgttaca cgctgttta tgatcgtctt 120

cacttataat catttctctg ctactaccgc ggagctcatg gaatcattac tgtatatgac 180

gtgacagacc aagaaagctt caataatgtg aagcaatggg tgaacgagat agaccgttat 240

gcaagtgata atgttaacaa gctccttgta gggaacaaga gtgaccttac tgccaacaaa 300

gttgtggcaa ctgagacagc aaaagcgtaa gctgatgaga tgggcatccc aatcatggag 360

acgagtgcc aaaaacgcaa caacgtggag caagccctca tggctatggc tgcatt 415

<210> 15211

<211> 245

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-022-Q1-K1-A12

<400> 15211

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cctgtctata gccgccatgg cggcgggtcaa cctagtctac ttctgtcgtt gcgcgcgctg 120

gtacagggtc aagaaccgga ccgtcgccga cgtcgagcag ctggagctgg agttagaggg 180

aaaggccgca gcgcctnctg tctgaatact gaagagctat tttcttttct tcctcctcat 240

caatc 245

<210> 15212

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A2

<400> 15212

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agaggaggtg cgggtgggcgc ctccggcgcg atctggcggg gaggatatgg ccagcgggaa 120
ggagccgatc gaggtcaggt ttcgtctctt cgacggcacg gatatcgggc ctacgaagta 180
cgatccctcc accacgggtct cctcgctcaa ggagttcatc ctcgctcggg ggccgcagga 240
taaggatata gctccaaa 258

<210> 15213

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A4

<400> 15213

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agcggcagcg gtggtgcacg tcaacttcta ccgcaactat ggtaagacgt tcaagaaacc 120
aaggcgtcct tatgagaagg agcgtctcga tgctgaactg aagctgggtg gtgagtatgg 180
gctg 184

<210> 15214

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A5

<400> 15214

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tcggcccaaa cgctggaatg gaccatggcc gaactcattg ccaaccgcg ggtgatgagc 120
aagctccaag gcgagatagc gcgagtcgtc agcgcggatc agacgaccat cgctgaaccg 180
gacctgaaca aaatggagta cctgagggca gtgttcaaag aggtgcttcg gctccacca 240
ccagcggcgc tcctcgctcc gcacgaatca acaacgcccg cagttgtgca gggctacgag 300
atccccggca aaacggctct ctttgtcaac gtgtgg 336

<210> 15215
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-A7

 <400> 15215

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 tcggggggacg gaaccacagc cacgcgacgc aggacctgta cgactccatc gcggcgggga 120
 gcttccccgga gtggacgctg tacgtgcagg tgatggaccc ggacacggag gagcagtacg 180
 acttcgaccc gctggacgac accaagacgt ggccggagga cctgctgccg ctccgccccg 240
 tggggaggct ggtgctggac aggaacgt 268

<210> 15216
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-022-Q1-K1-B1

 <400> 15216

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 cagggccccg gccactgccc agtcaagata ctccctccaa tggggcccc agatgtcgtc 120
 tcctcagata atgttgagta cgatttctct gatgtttttg gttccacccc ggtccaaaca 180
 ccaacaaacc tttgtggttt tgggtccggag agtcctgcac ctactgttga gtccaatgaa 240
 gaattttaca gtgatcctgt tgtcatcacc aaccgatccc attctctggt cgggtccaaca 300
 tcacttgtca gtcgctcctt gcaactaagc aagccttaat cttgaaaaaa ccagggatcc 360
 ttcggacttg gcaaaggcct ttcaaaaaaa aaaggaaggg acccaaggca acttaatggg 420
 taagaatctg gttatgcttt taccagggaa tgggg 455

<210> 15217
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-F5

 <400> 15217

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 aaatgaagat gggacagtga ttgaaagtga aactgcgaaa gatgatgcc aacatatatgg 120
 agttaatttg tcagaatcag atgctgcagt tcgtattcag tctgcctaca gagggatatga 180
 tgttcgaaaa tggcaacctt tggataaact ctggaagatc aagcatgtgc atgaacagat 240
 gcaagttgtg aggaagcaga ttcaatgcct tttagattct tgcagtaagc caacacaaaa 300
 agagcaagtg gccataggtg aaactattat gaatttactc ctgaagcttg acgcaatcca 360
 gggcttgcat ccaagtgtaa gggaaagctag gaagtctggt gctcgagaac tgatttgctt 420
 gcaggagaag cttgatactt tatgcaaagc agcatctg 458

<210> 15218

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F7

<400> 15218

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 tcagcttgct agccatcgcc tcctacgtcc agtacactcg ctggcaaaag gggaaaggcc 120
 gcttcggcgg ccatgggagg tctgctccct tgaagctgcc tcctggctcc atgggctggc 180
 cttaccttgg cgagaccctc cagctttact cccaggacct cagcttcttc ttcgcttcca 240
 aacagaagag gtacggcgag atcttcaaga cgcaccttct gggttgcccg tgcgtgatgc 300
 tggcgagccc ggaggcggcg cggttcgtgc tggtagcgca tgcgcacctg ttcaagccga 360
 cctaccgcg gagcaaggag cgcctgatcg ggccgtcggc tctcttcttc caccagggcg 420
 actaccacct ccgcctccgc aagctcgtcc agggcgcgct 460

<210> 15219

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G1

<400> 15219

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gagcgcccca tcttcatccg tcaacatggy cgacccagat cagcaagaag aagaagtctg 120
tcagcgacgg tgttttctac gccgagctca atgagatgct gacgcgggag ctggcggagg 180
atggctactc tggcgtggag gtgcgcgtca cgccgatgcy cacggagatc atcatccgcy 240
ccacgcgcac gcagaacgtg ctccgcgaga agggccgcag gatcaggagg cttacctccg 300
tcgtccagaa gaggttcaac ttccctgaga atggcgctga gctttacgcc gagaaggctg 360
tcaaccgtgg gctctgtgcc a 381

<210> 15220
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G11

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gagggagtgat tgcagctagc tgagctccga tcctcgctag ctaggatacc gccataccac 120
aagtcttctt cacaagttta ggagtgcag caacaagaga tcgatggcct ctgccaccgt 180
gctcaagtcc tccttccttc ccaagaagtc cgaatggggc gccaccaggc aggccgtcgc 240
gcccaggccg tccaccgtct ccatggctgt ccgcgccttc gcctacgccg atgagctcgt 300
gaagaccgcy aaaacgatcy cgtcgccggg gcggggcctc ctggcgatgg acgagtcgaa 360
cgcgacgtgc gggaagcggc tggcgtccat cgggctggag aacacggagg ccaaccggca 420
ggcgtaccgc acgtgtgtgg tcac 444

<210> 15221
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G12

<400> 15221
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ggattcctgt gccggctgac tggatgtcaa gccctctcga ccgatttgct aggccatgct 120
ttgaaggggt tgtacataac gatgaaagga aagagagcag atctgatgca gacaactcat 180

aatgagataa gaagactaag attgggtctt tcaagaaaaa agcaattaat gcggggaaca 240
aattcaagca ttccttgaaa agggggagcc aaaaaaagta ccaaagggg gatttccatc 300
agggacataa ggaacgtaaa ggagcttcaa gatgttgaga cattgcgaca ttgcttaatt 360
gatgaggatt tgctgaaacc acagcacgat gattatcaca tgatgttaag gttcctaaaa 420
gcacggaaat ttgaagttga gaaagct 447

<210> 15222
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G4

<400> 15222
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tgattcaaca catctactga gaaagagagg tattgctgat acaattcgta actgttgctt 120
tgaggctgat actcagcttc tgagtttgct ttcttttagca gaatatctct ggccagctct 180
acittttgcct gtaaccggaa agaagatcta tagtgaagaa tacagatcaa atatgccact 240
ttagctatcc agtgcactct ctcatgaacg ggaagttggt gaagattctg aaattcatca 300
gcaagcatta caagctatct atatgatcgt attgcatgat ggttgtcgaa ggtccttttg 360
gtcaattaat ggcccactaa ttctgcaagt tggttatgaa gatgaaaagg acccgaaagt 420
gatggaagca tatgaactc 439

<210> 15223
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G5

<400> 15223
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tattccagct gacgggatgt caagccctat tgaccgatat actaggccat gctatgaagg 120
gtttatacat aactatgaaa ggaaagatag caaatcttat gcagacaact cataaagaga 180
taataagact aagattagct ctttcaagaa aaaagcaatt aatgcgacga acaaattaag 240

gcattcattg agaaggagaa gcaaaacaaa taccgaaagg cgggattaca tcaatgacat 300
aatggacatt aaagagcttc aagatcttaa acattccgaa atgcttaatt gatgaaaatt 360
tgc 363

<210> 15224
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-G7
<400> 15224

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tcaggagaag ctcacctagg catgcggcat aacagaagcg ctcacctca ggccggcatg 120
cgtctaacgt gaagaactac gattctgctc tgaaaggcat tgaaggctct cattctgatg 180
gctacgagag ggttcagcac tagagccgca agaaattcta catgcactgt aaaaatgata 240
atcaggtggc aagcatcgtg tttactgttc ggggttttga tcatcacgac atgaaatgct 300
agaacgagga tctgatcacg gactgtgcac gtacacgtgg tgctttaagc atgtgtaaca 360
aacggtacta tctgacgcgc ttcatgccta gctatcataa catcgtgaag gtgta 415

<210> 15225
<211> 459
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-G8
<400> 15225

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cgaggggttc cgatctgggc cagcgaagga ggaggacacg gctcggcttc cgtctgccga 180
ctactactca gagctaaaga ccctggagca tgccgagaaa accaaaaaat atcagggtaa 240
gcttgacgca cggttgaagg ccaaataatt ttccaacaag acttttgaag aaggatatgt 300
gtttgaagaa attgttatag aatcaaagac cgtccggcta agcaggtggc cgttttacaag 360

gttgtttgca gatccagcaa gactttgccg aganaagagc tctaatagaga agggcatttc 420
tncacctctg gctggtgaag ccatgtcaga tgactaacc 459

<210> 15226
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G9

<400> 15226

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gagctgcagc gccgtgggag tgcccagcct gctgggtccg tcgtcccggc ccggccgcct 120
ggcgccgttc tgcgccaacg ccaccacctc tggccgcgtc accatgtccg cggagtggat 180
gcccggccag ccacgccttg cccacctcga cggctcctct c 221

<210> 15227
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-H1

<400> 15227

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atgagggtgtc ggacctgagc atcggctagc cggccgtgag gtcgtctccg atctccgtcg 180
tcgccggcga ccttgccgac gcgctcctga tgggtggcccg ctctggcgca ccatcctgcg 240
tcgcggtgac tggaccagcg cgcgccgtct tcggacgggt cggcctagca gacgtgtctt 300
gcttcctgtg cacctacccc taagcgctcg tgcgcacctg cgtcatgttc tacaagcccg 360
tctacgtgc 369

<210> 15228
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F3

<400> 15228

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ctggtcgtgc ttactccgcg tatgtgctca agcacgcccg ccgtcataatc ttcaccgtcc 180
tgcttcatag cgcgccttcc cactttctgc tcgctcgcgc acaggtcaaa accccctggt 240
ggtcgcgcgt tttcttataa acagaccact aattccgcga gctcccttcc taacgggtccc 300
tggctccagc tcgggcggcc ctgttcccca tgggt 334

<210> 15229

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E10

<400> 15229

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gggagtagag gcgggcgggt gcgggcggag ggcggtcgct accgggttct acgtctgggg 180
ctgggagttc ctcaccgccc tccttctctt ctgcggccgc gtcgccgccc cagactccta 240
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aacacacaag tcattcagtt ctagctagtt agtagcctat acaacacata catacataca 360
aagggtgagtg aggttcgcgt gcaagcagag ccaatcgtgc cgatcgagct atatacatag 420
ccggcggcga gggatgggaa gagc 444

<210> 15230

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E11

<400> 15230

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gatgctggat ggccgtcttc cttgatacct tgcctcgca gtgctctcgg tgagctaact 120

tgttttgatt tatcaggaaa tccgtttgct tcatgttatg caggctcaga tctgattgct 180
 ggattcggca tcttacgggc ttgaatagag ctaggactgg gagaaaacaa caaaccgcgc 240
 ttggatcctg tatcgggttag tccttgccct caaggttcat gttgttttgt tctggtggtc 300
 gagcatcgca tgttctgctt ctggttccag atctggagaa atttctaagt cgtcgtcgtc 360
 gtcgtcgttc ggttcggaac ggaatctgagg cgacgatggc ttgaa 405

<210> 15231
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E2

<400> 15231

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 cggaaggaag ctgcgccgtcg ccaggccgtc ggcccgtctc atccgcaggc cccgcgcagc 180
 cgccgtgggtg gccaaagtacg gcgacaagag cgtctacttt gacctcgacg acatcggcaa 240
 caccaccgga cagtgggacc tctacggctc tgacgcgccc tcgccttaca acccgctaca 300
 gagcaagttc ttcgagacgt tcgcggctcc gttcaccaag agaggtctgc tgetcaagtt 360
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<210> 15232
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E3

<400> 15232

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 aggagctgca gcgccgtggg cgtgcccgagc ctgctggcgc cgtcgtcccc gtccggccgc 120
 ctggcgccgt tctgcgcaa cgccaccacc tctggccgcg tcaccatgtc cgcggagtgg 180
 atgcccgccc agccacgccc tgcccacctc gacggctcct ctcccgggga cttcggttcc 240
 gatccgctgg gcctcgcgac cgtgccggag aacttcgagc ggttcaagga gtcagagggtg 300

taccactgcc gctgggcat gcttgccgtc cccgggatcc tggtgccgga agctctgggc 360
 ctgggcaact ggggtgaaggc gcatgagtgg ggggccgtcc ccggcgggca ggccacgtac 420
 ctgggcgccc cggtgccgtg gggcacgct 449

<210> 15233
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-E5
 <400> 15233

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 tcagggagtc agaggtgtac cactgccgtt gggccatgct tgccgtcccc gggatcctgg 120
 tgccggaagc tctgggcctg ggcaactggg tgaaggcgca ggagtgggcg gccgtccccg 180
 gcgggcaggc cacgtacctg ggcgccccgg tgccgtgggg cacgctgccg accatcctgg 240
 tgatcgagtt cgtggccatc gccttcgccc agcaccagcg caccatggag aaggaccccg 300
 agaagaagaa gtaccccgcc ggcgccttcg acccgctcgg cttctccaag gaccccgcca 360
 agttcgagga gtacaagctc aaggagatca agaacggccg cctcgccatg ctggccttcg 420
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<210> 15234
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-E6
 <400> 15234

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 tccatgcttg cccaccccg catccaggag cctgaagctc tggcccttgt caactccatg 180
 aaggcacatg actggacagt cgttcccggc ggacaagcca cgtacctatg cacacctgtg 240
 ccgcgtatca ctctccgac catactgctg atcgacttcg tgtccataac cttccccag 300
 caccaactca ccatggagaa agacccccat aagaagaact accc 344

<210> 15235
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E7

<400> 15235

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ccggagcttc ctgcgcacg gctgcctcct cttcttcgcg caagcaccgg atcttcctcc 180
tcttctttat gcaaggcatt agatctccct tctcttctct tctctggaga gctttttctg 240
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gtcagccgag aaagtcgagc tggatgaagtc cctccactct acaccaccgg cgggcccata 360
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tcacttcag aaaagagtca gttgcatggc tcct 454

<210> 15236
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-E8

<400> 15236

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tattattact ctgagcacga tcaactccctc gcacctgcat gtcagtgaa tcaccggatc 120
ttcctctctc actgctgcct cctcttcttc gctcaagcac ctgactcttc tcctcttctt 180
tatgcaaggc attagatctc ccttctcttc tcttctctgg agaacttttt ctggagcttg 240
tgcgtgagga tcctgcatgc cggtggcgtg tagctcgcgt tccaactctc cttgtcaacc 300
tagaaagtcg agctggtgaa gtccctccac tctacaccac cggcgggtccc atagcacggc 360
agcctcatcc cccctcggt tagctaactc attgtccgca tggatgtagt cactccactt 420
cat 423

<210> 15237

<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F1

<400> 15237

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ggcgagggtga tggcgatgga ccctgacgcg gtagcgaagg ccttcgtgga gcattactac 120
cgaacgttcg acaccaaccg cgcggcgcgtg gttgggctgt accaggagac ctccatgctc 180
accttcgagg gccagaagtt ccagggtccc tccgccattg cctgcaagct cggatctctc 240
cctttccagg cctgcgagca tcagatcgtc accgtagact gccagccatc ggggtcccag 300
ggaggcatgc tcgtcttcgt ctccggttcc atacgcaccg gcccgatga gcacccatc 360
aagttctccc aggcattcca tttgctgccg gccgattggt ccttattcgt gcagaatgac 420
atgttccgcc tgaactatgg ctaaagacac ccgatac 457

<210> 15238
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F10

<400> 15238

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ctccgacatc gggcagcgaa acaaggacaa agcaccatct cccgaagaaa atgaggacct 180
gcagacccca acaagccagg cttgccaaac cagccagctc ggccagtcta aagccatcgt 240
tgggtggagtg atgggcttta gtggagtgt agccggcggc ttccacaccg aggccaaccc 300
cgacgacagc ttcatgagcc tgatgctaaa ggcccagaga cctggtgaaa ccgaaggcac 360
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<210> 15239
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F11

<400> 15239

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cgagcaggtc tcgccgtcgc caccgccgcg gtagagaggg gagggagagg gggaaaaaac 120
tggcccagat cgagaggtac agcacgaaaa agagaggcat gagagatagg ggaccggagg 180
gcgggcgggc ggggcccagg accgaggggc tcgtgcgag gaagctgatg aagctcctgt 240
cgctcgctcc cttegggtgc cgtgctggac ccatcgacga ctgccgcgcg tccgtggacc 300
acgccgccgc cgcgaggagg cgccggaaga agaaggccaa catggccgtc cagctgctgg 360
gggctgctgc aggtgccccg cagcagtggc gccctcgct cggcgacatc tgcgaggagt 420
acagcagcag caccgacgcc 440

<210> 15240

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F12

<400> 15240

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cggatttcaa gatctgggta tccaacaaga atgactcacc agaagtttgc tcggcggtat 120
ggttttcttc ttgaggatgt tgcattctaa gatccactca gtgtttcagt tgcaattctt 180
catcagttca acattttacc tgagatgtat caagttggct acacaaagtt gttcttccga 240
actggtcaga ttggcaacct tgaagatact cggaatcgta ctctgcatgg tattttaagg 300
gttcaaagct gtttcagggg gcatcaagcc cgtcatcatg caagagaacg aacaagagga 360
gttttgactc ttcaatcatt cattcgtggg gagaatgcac ggcaaattta ctctctttg 420
ttgaggaaac atagagccgc agttg 445

<210> 15241

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D9

<400> 15241

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gatgatacca acatatgaga actcagcttg gccaatcatg gcaatttcat tcgtatcact 120

gcttgctatg tctgctatcc tagttgcatg tttctttgcg aggagacacc agatcagacg 180

ggacagggca agacttcccc gagctcagga gtcccatgga atgagcagtc aattagttaa 240

ggcaatacca agccttattt tcacaaaagt gcaagaagac aactgtacat cagcaacatg 300

cgccatttgc tgggaagact acagtgttg agaaaagata agagtgtac cttgtcgaca 360

caagttccat ggggcttggt tggacctatg gctcacctca tggagaacat tctgccctgt 420

atgcaagcgg gacgcaagtg ctggaacg 448

<210> 15242

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C12

<400> 15242

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tgggggtcttc ctgcgctgc ctccctcgc tctcatcgg tcatcagttt gaggtttcga 120

cctatttcac cagagctgat gggactcatg gatgggaaca aagatgaggc cttgagatct 180

gtcaagcttg caaaatctgc atttgcattt ggggatagga agcgcgcaga aaaattaatt 240

aaaattgctc aaagattgga ccttggctt ccaattgatg atttgctgag ccagttgaa 300

aaagttggca tctgaatat ttctacttgc aaagacaaga ctgaaagaag acaagctctt 360

ttatacccaa aaacaacata agaattctgtt ggctctttaa atgttgataa ggcttacact 420

gaagagaata ttaaagtgg 440

<210> 15243

<211> 196

<212> DNA

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<223> Clone ID: LIB3060-021-Q1-K1-C3

<400> 15243

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atcgccgctg gggaaaattc caaccggccg cttgtccatg aagaaggtcc gatccttgaa 120
ccccgcgatg taaccgcccg tccagcttcc tgaccagccc ctacgcccgt gatagcagcg 180
ccccccgctt cgcaag 196

<210> 15244
<211> 395
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-C4
<400> 15244

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cccaaccggc cgcttgctcat ggaggaagtc cgcattctga atctcgacga ggaaccttcc 120
gtccagctc ccgcaccagc cctacgccc gtgatagcag ctcccttcgc tgcgcatgcc 180
gcggcggttg accattctgc cctctgtcc actggctgga tcgggcccga tgcgcccgtc 240
gatattccta ctaataagat actgtcgcta ccgatgcat ctccagccaa cgcgcccgtg 300
ttcgctcgcc ggggtgttttc tgccgctgtg ccgcgccatg tgccctactaa gaagactgct 360
actgtccctt gcccatcttt agccaaagcc cccgt 395

<210> 15245
<211> 341
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-C7
<400> 15245

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caaggagggt tctcatgagt ggcaattggt taacaagcag aagcctatct ggatgagaaa 120
gcctgacgag attaccaaag aagagtatgc tgctttctac aagagcttga ccaactactg 180
ggaggagcat ctgccgtta agcacttctc tgctgagggt cagcttgagt tcaaggctgt 240
cctgtttgtg ccgaagaggg ccccttttga cctcttcgac accaggaaga aactgaacaa 300
catcaagctc tatgttcgcc gtgtcttcat catggacaac t 341

<210> 15246
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C9

<400> 15246

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acggggcagc cagccatgga tgaggagtac gacgtgatcg tactaggcac ggggctcaag 120
gagtgcattc tcagcgggtc cctctctgta gacggcctca aggttttgca tatggacaga 180
aatgactact atggaggaga ttccacctca ctcaacctta atcagctctg gaagagggtt 240
agaggggaag acaagcccc agcacatcta ggtgcaagca gagactaaa tgtggacatg 300
gtgccaaagt ttatgatggc aaatgggaca ttggttcgaa cctcattca caccgacgtg 360
acaaagtact tgtcattcaa agctgttgat gggagctatg ttttcagcaa agggaagatt 420
tacaagggtc ctgccactga tatggaagct c 451

<210> 15247
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D10

<400> 15247

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cgacgacgac gatggggctg gagatggagg cgatggcggg gtcgatcggc gtgtcgggtg 180
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acctctcctt cggggccacc tccaacctcc tcttcgtcgt gccatgacg ctcggttacc 360
ttgccatgct cctgttccgc cgacacgcgc ggctcatcac cttec 405

<210> 15248
<211> 236
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D11

<400> 15248

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cgacgacgac tatggggctg gagatggagg cgatggcgga gtcgatcggc gtgtcgggtgc 180

ccgtgctccg gttcctgctc tgtttcgcgg ccaccatccc gacaggcctt ctgtgg 236

<210> 15249

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D12

<400> 15249

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gaatattttta aacaatgcag gagtcactct gatcgaaggc cgtggaaaga tagtcgatcc 120

tcatactgtc agtgtgaatg gtaagctcta cactgctaag cacatactag ttagtggttg 180

tggccgacca tcgatgccag atatccctgg tatagagcat gtcatagatt cggatgctgc 240

gctggatttg ccttcaaaac ctgagaaaaat tgcaatagtg ggaggtgggt atattgcttt 300

ggagtttgct ggctttttca agggctaaaa aagtgaagtc catgtgttta ttcgtcaaag 360

gaaagtttta agaggatttg atgaagaggc tagagatttt gtcgctgaac aaatgtcttt 420

aaggggcac cagtttcata c 441

<210> 15250

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-D7

<400> 15250

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<210> 15251

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C11

<400> 15251

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 cctatttcac cagagctgat gggactcatg gatgggaaca aagatgaggc cttgagatct 180
 gtcaagcttg caaaatctgc atttgcattt ggggataggc agcgcgaga aaaattaatt 240
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 aaggttggct tctgaatat ttctactggc aaggccagga ctgaaggagg ccaggctctt 360
 tattcccaa aaccaccaa ggattctgtg ggtccttaa aggtggataa ggcttacact 420
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<210> 15252

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-A6

<400> 15252

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 tatcgagcat atgctcctgt tgctagcttg gattctgact tataggcgtt caatcataat 180

ccggcacacg gtagcttcgc tccactgtct tttcaaccaa gtcgatgac caattgtgtg 240
aatcaacagt tcctctctta ctatgttgaa ttactaatcg cgcacagtca tcaataaggt 300
aaaactaacc 310

<210> 15253

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-A7

<400> 15253

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ttgagatcaa aatcaagaca ttggattccc agacatacaa tttgcgtgtg aataaatgtg 360
tgccaattcc tctgttgaaa gagaaaattg ctactgtaac tggaatattg tctgaacagc 420
aacgcttgat ttgtcgtggg ag 442

<210> 15254

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-A8

<400> 15254

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gacaacgtca aggccaagat ccaggacaag gagggcattc cctcggacca gcacgggctc 180
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gagagcacc cccaccttgt tctccgactc acgggaggca tgcagatctt cgtcaagacc 300
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<210> 15255
 <211> 182
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-A9

 <400> 15255

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 aggctccagc aagggtgtgc tgttcataaa gggcaccagg gacttcccga attgcggttt 180
 tt 182

<210> 15256
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-021-Q1-K1-B10

 <400> 15256

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<210> 15257
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-B11

 <400> 15257

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catgagcgcc aacgccgcca ccttcacat caccaacaac tgcgggttca ccgtgtggcc 180
cgcggccaac ccggtgggcg ggggcacgca gctgaacccg ggccggacgt ggaccgtcaa 240
cgtgccggcc ggcaccagct ccggcccgct gtggggccgg accggctgct ccttcaacgg 300
caacagcggg agctgccaga cgggccaatg ccgctgctcg cttgcctgca cgctgtctgg 360
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<210> 15258
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-B2
<400> 15258

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ggatcccggg ccgtggccga gccgtgagga gagtggctgt aaggacgtg aagctgctct 180
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tcgacatgag gcacgtgagg tggggcgga tctccatag gatcgctctt gcgtacctgg 300
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cgtgctgcat tctggtggtc tacctgtccc 450

<210> 15259
<211> 94
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-021-Q1-K1-B3
<400> 15259

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gtcggggggc ggatgccgtt gctgatgatg aata 94

<210> 15260
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-B5

 <400> 15260

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 tactgatata ttggcagcat tccgagtaac tctcagctc ggggttccgc ctgaagaagc 180
 aggagctgca gtagctgcgg aatcttctac tggtagatgg acaactgttt ggactgatgg 240
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 cccagatcaa tataatctgtt atgtagctta tccattagac ctatttgaag agggttctgt 360
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<210> 15261
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-B8

 <400> 15261

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 cccgtcggag cggaccttgt cgcggcgggc ctgcggcagc tgcgcttctt cgcggcggtg 180
 gaccgctgcc ggtggctcta ctacgagggc ccgctgctcg accgggcat acgcaggtac 240
 aaagcatgct ggcttccctt tcttgacaag cacactaagg gtgtggttgt agatggtcca 300
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<210> 15262
 <211> 347
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-C1

<400> 15262

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ctagcgtgac gacggttcag cggcacagag gtgcgacgta cgacgacgac gacgcatgcg 120
ccacacatgg catnccagct ctccgccgac gtgccccggg tccacggcct ncggggctac 180
gccgcgcccc ggtccgcggg ggcagcgctg ccgttcgtga ggggtgggcag gaagaggtcg 240
tcgtcgcagg gcatccgctg cgactacatc ggctccgnca ccaacctgat catggtgacg 300
acgacgacgc tgattgctgt tgcggggcgg ttcgggctgg cgccgtc 347

<210> 15263
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-A12

<400> 15263

cgtttgtgcc actcatggtg acatgtacca taacactaga gacatcatca tgaggagagt 60
ccggtctggc tcctcccgtg tgctcatcac cactgacctg cttgctcgtg gtattgatgt 120
tcagcaggtg tccttggtca tcaactatga tcttcccacc cagccagaga actacctgca 180
tcgtattggt cgtagtggtc gttttggtag gaaggggtgt gccatcaact ttgtgacctg 240
cgacgactaa cgtatgctgt ttgacattca gaagttctac aacgtgttga ttgaggacct 300
gactgccaat gttgctgacc ttctgtgatc aa 332

<210> 15264
<211> 167
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-020-Q1-K1-F3

<400> 15264

gnaccggnga ngncnccnc cgcaccagng aggaaggaan cgcngaggcc aagggcgcag 60
cgggggacac ccancngggg gngaggaca gngacaacag gangggcaac cacagcggcc 120

aggagnncaa gaggaagaac aagaaggana acacnggcaa ccccagg

167

<210> 15265

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F5

<400> 15265

ctgcaagcta aggagagtgt gatcaccaac agctagtgt agtccccctt ccttccatcc 60
atgCGTggca tgcgtcagca ccttccagag ctgccccatt gccagaagag caaagatcaa 120
caccaggtcc aggggcagca gcagtagcgt ggcgaagggg tcaccaccac cagccttcca 180
gttccagtgc agggcgctga ctttcgcggc ggacaccagc ctccggctcg agctggacga 240
gaaccccgag gcgatcatct cggggcgctg gcccggaac tgctccctcc tcagctacga 300
cgacctccgc gcctacctcg agtcgcaaga gacggcgggc caggcagacg gtcagcagcg 360
cggcgTggcg ctctgagcg agaccatgtc cacaccctg ctggtggcca cagcagacca 420
gacctggaa gacgtcgagt gccac 445

<210> 15266

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F6

<400> 15266

gcagagagcc tcttgctgtt agtgaactaa tgcgacggat accgcgagg cggaacta 60
gggtgggcag cgatgatggc gacctggac agcggtctt acctcctgct cctactcgcc 120
catccggcgc cgccaccga ccccgccaac ggcgccagca gcctgtggcg cggcggtggc 180
gccgcgctag ctctcatcc tgctcgcttc ggcgccaaga ggaggacgt ccggttggtt 240
aacgtcagcg tcagctgcag cgccgaggcg ctgcgtccg acggcgcttg cgcggagcca 300
gcggtgccgc ggtctgtgcc ggtgcgcgtc gcctaogage tgcaac 346

<210> 15267

<211> 423

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-F8

 <400> 15267

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 cccgcatacct cactctgtgg ggccatctcc cccagctcc ctctgggagc tccggccgct 120
 gcctccgtcg cttcgccgtc gcgtcactcc tgctacctcc tccgcgcttc cccttcgagg 180
 cgccatcgga gtcgcttcgt agccaacgcc gctcccacca tgcagcctcc ggcggagtcc 240
 agggctctcca cggtagtcga tgcgacctc ggcgaccgta gctatccgat ctacatcggc 300
 gcaggcctnc tcgacgagcc ggacctgctg cagaggcagt caaattatac attttttctt 360
 taactgttag actggagtgg tcaacctgtg atccttattt atggtttctc aggcatgttc 420
 atg 423

<210> 15268
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-020-Q1-K1-G12

 <400> 15268

 accatccatt ccaattcaag gtatcctaaa tcatcaacat atgtctcgag aacacgagga 60
 cttatacctt ctgcggatca atcatctatc atccaatccc ctacaaaaaa accattgcc 120
 catgttggct aattccacga ctactgata tttttcttac ttgattgtct tctgtctatt 180
 tataattaat cttcaactta cat 203

<210> 15269
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-020-Q1-K1-G3

 <400> 15269

 aagaaaaatg gcgcagctgg aggagacgta cgcgtgctcg ccggccacgg aacgcggccg 60

tgggatcctc ctggccgggg accccaagac agacacgata gcctactgca ccggccgtaa 120
 cgttatcatt cagcgtctag atgcgcctgt tgacgcttgt gcctaccccg accacgccta 180
 ccgcacgacc g 191

<210> 15270
 <211> 288
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-G4

<400> 15270

cccaagcgng cgcccacacg cccgccccac ctccacgcac tcaccnctc acacggggaa 60
 gcggggcactc cagccgagcg caaacgccgc aacgcacccg aacgctgcga gcgcacccag 120
 ctacacaggcg gccagegcac ctacctgata ggactctgcc cgacgagctt gctggctatg 180
 cctcctcaag ctcggttcca tggccttcct cgccttcggg cagctggagc tcacctgcgc 240
 tctgcagctc gagcagatcc ctggtcgaca ggccgcgcac ttcagtga 288

<210> 15271
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-G7

<400> 15271

agctcatgct cactctaggt ggagctttgc gcgtgtgcc tgtgttgctg gtggtgctgc 60
 tgcggtgcc tggagtgcac ccataacatc gtccctcccc tcagcagcct tcccttcctc 120
 cgcttctccg gccagctct cccaggtgga ggtggagggtg gagcagcggc ggcggtggtg 180
 gcttctccac ctgtagtctc catggcgctc atctcggtcc ccagcccggc cccttccgcg 240
 accgaagacg ccgaaaacat caggaaagca gtgcaaggga tgggcacgga cgagaaggcg 300
 ctgatcgaga tactgggcca ccggacggcg gcgcagcgcg 340

<210> 15272
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-G8

<400> 15272

aatcgggtcca tcccctgact atcactggct cactgccctt ccacctccag gttccagcgg 60
ccgtgggtgaa gaagcccaac ggtgtcgcca aggccacggc gacctctgct gacgtggcag 120
cccagccatc caaggagaat ccgtccaccc ctgggttggc caaggcctcg aagtttaaga 180
ggagaaaggt caaggccaac cgtgcgaagc aggcagtcgc tgcagcagct attgacgagg 240
tcgcccctgt aggtgcaggc actggtgatg gcgatgcac tgcacagcg gctttaccgc 300
aaccatccga tgttgccgag gcattacctg tgggtgcaaac gccaaagtca accacttttg 360
ctgaggcatc acctgtggca cagacgcaga agccagccac tgatgctgaa agattggtgc 420
ctggacccaa tccaaccact gctgtagcat cagcttcgtc 460

<210> 15273

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-G9

<400> 15273

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tctcacgcc gacagcttca gcccctacat catctacatg gcgactgtc cctcggacgt 120
gctcgccgtt gagctcctgc aacgctattg ctgcatgcgc cattctctgc ctctattgcc 180
tctgttctag aggctttcct 200

<210> 15274

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H10

<400> 15274

gtgagtgaac accagccgtc ttggcctgct cctcccctgc tgcagccatg gcgacctccg 60
cggcgctctg gaccgccgc aacccccacc agctctgccg gtcccgcgct gcgctgggca 120
agccagtga ggggcttggc ctgggggatgg ggcgggagcg cgcaagccag cggagcatca 180

cgtgccaggc ggcgagcagc atccccgccg accgcgtccc cgacatggag aagcggaagc 240
 tgatgaacc 249

<210> 15275
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H12

<400> 15275

atgctgcaca tccagggact gttgtgatgg cacgagttga ttgtgcatca aaggtgaacg 60
 tggatctttg gacaaattct ctgttgacca ttatccttac ctgttgtggg gtccgccaac 120
 aaaattcaat ttggttcagt ggaaacccaaa gcaagagaat agtgaattgg aactaattga 180
 tgatggaaga acagcagatc ggttactgaa atggataaat aagaagatgg gaagctcatt 240
 caatttagac gacaaaaagt atgagaatga aagtatgcac ccaaaaaata cttcagatcc 300
 tgaacagatt gttcgagcaa tttatgacg 329

<210> 15276
 <211> 196
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-H4

<400> 15276

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 tctagcaang gctgcctcca ggatggcgat ctctacacg gcgatggccg gtacccccat 120
 caaggcgggc tccatcggcg agggccccat gagcatgcgc aagaccgaga gcaagcccaa 180
 cgtggcaccg gccaga 196

<210> 15277
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H5

<400> 15277

cacaatatatt catcgattcc ttccttgtct tctcacctct gacgattctg tttctgaaat 60

ctgggtcctg caaaatgggt ccatgggtcac ggaattcgcc atggtcagag tcagagagag 120

agagagagag tcgtactggg cgtcacctgt cgaagatttt cgggtgtctcc tgagccacag 180

ctgctgctgc tgctggaacc atggagatgg aggccgtgga gtcgcacgga ggccgcccggc 240

gccggacgcc caagagggat cgcggcatct cctgtgcctg cgtcttcacg ctggcgagta 300

actgcttcca gttcatcggc tactttgccg tgtcgacgaa cccggtgaac tacctcaagg 360

acc 363

<210> 15278

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-H6

<400> 15278

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cgcgtcttct tcgacatgac cgtcggcggc gccccggcgg gccggatcgt gatggagctg 120

tacgccaacg aggtgcccac gaccgcggag aacttccgcg cgctgtgcac gggcgagaag 180

ggcgtgggca agtccgggaa gccgtccac tacaagggct ccaccttcca ccgcgtcatc 240

cccagagttca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtcc 300

atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgt ccccggtgtg 360

ctctccatgg ccaacgccgg gcccac 387

<210> 15279

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F12

<400> 15279

cttctctcct tttgctcgga acgcacacac cgaccgttcg cgatctccga tccccctgtc 60

gatggaaaga ggcacatctt cgtcaagacc ctactggaa agactatcac cctcgagggtg 120

gagtcttctg acaccattga caacgtcaag gccaaagatcc acgacaagga cggcatcctc 180
ccggaccagc accggctcat ctgtgctggc aagcagctac aggacggacg cacacttgcc 240
gactacaaca 250

<210> 15280
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-A11

<400> 15280

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ccggtctggc tcctcccggtg tgctcatcac cactgacctg cttgctcgtg gtattgatgt 120
tcagcagggtg tccctgggtca tcaactatga tcttcccacc cagccagaga actacctgca 180
tcgtattggt cgtagtggtc gttttggtag gaaggggtgtt gccatcaact ttgtgacctg 240
cgactactaa cgtatgctgt ttgacattca gaagttctac aacgtgttga ttgaggagct 300
gcctgccaat gttgctgacc ttttgtgatc aatctgaaga aaaaacagaa caaataggg 360
tcgtgaggga acctggtaag gattggtttt gtcgaaatac cgtgggagag ggggtga 417

<210> 15281
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-C8

<400> 15281

ccctcgcttc ctcacgtcac gcaccccatc tcttctctcc cctctcgtc tcgtccagtc 60
gtcgcgcttc tgccccactc taccagctg cctgctctg cgtcgtcgc catggcgctc 120
tccacgggga gcttgagca cggggggttc acgttcacgc cgcgcctt catcacctcc 180
ttcaccgagc tgctctccgg cgcacgggac atgctaggag cggcgccga tcaggagcgg 240
tcgtcgccga gggggctgtt ccaccgggc gccagggcg tgccaagt caagtcggcg 300
cagcctccca gcctgcccac ctcgcgcgcc gccatgtcgc cttcctgcta ct 352

<210> 15282

<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-020-Q1-K1-C9

<400> 15282

agaaggatga ttaccaacct tgtgatgtaa cattggaaat ttctacatca cactacgacc 60
gcagacctag caaagataag catacttcac caaaacaact gtctgaaaaa tctccatctt 120
caggtgacca taggttttca ggtaggctta gtgggtggcg tagtcttgat aataaaggag 180
aaagaaagag ccttacgaaa tacagagata gagatgggtga catagcccaa gagcgatcac 240
atcatcaaga tcgaatgccg gctaagggttc cattcaggga gccaacaccg tcaaattcat 300
ccataagtag aggtgggtcat tttttgggca gttcaccaaa taatcctttg ccacctgcac 360
ggaacgggtga cccttncttc cagggtctac atgatga 397

<210> 15283
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D11

<400> 15283

aactagactt cctagacaga ctagacccta tttagaattc gtaatatcca cactaaactg 60
atccgctcag ggctgactct tactatcaac agaagtattg acaaaaatct gtatatccaa 120
ctgatgatct acacactcca actccatctc gtcacataga taaacctgca cataaaggta 180
ctgatatatatt tactgatttt tacag 205

<210> 15284
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D2

<400> 15284

atatcgttgt acctgcatct cgacctcacc ggcgtccggc ggtgggtatca cgatgggtggc 60
gtggctgggc cggcggtatcg ggggtggctgc ggcagctgcc gcgttcacgc ccctcgtggc 120

gttcggatcc gcctcaccct cgcccaagtc cttcgtgaag tccatcggct tcgtccacga 180
cgtcgtcatc 190

<210> 15285
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D3

<400> 15285

gttctgtgtt tcccgtecca tcgtgtgtga tcgcgtctgc tggctctgcca agaggaggaa 60
agggaggaga gagatggctt gccctgcgca gtccatgctc tccgccagcg gctgcatctt 120
cctgaggagc aagcctcagg cgccatccca agtgcgaggg ggcacatcgc gcggtggccg 180
cagcagcagg ccgttctctc tcacctgcaa cgttctctct tctccgtccc cttcctcgcc 240
agcgccggcg caggaagacc ccgactgcaa cgaggaggag tgcgccccgg ataaagaggt 300
cgggagcctg agcgc 315

<210> 15286
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D5

<400> 15286

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gtcgatgaga gctgaggctc atgtagccga tgagtccttt ttttttcttt ctcttcctgc 120
tgtttctcca agattcaagt tggctggccg tgcttatccg tgcaggagct gaagcaggtt 180
tctgcctctg tgggtggtgat ggtatctatc ggtaccgta ctttgctcg ctttattccc 240
atctttgctg gtgaggtgct atgtcagtgt tgttacactc gtttattttg ttctcatatt 300
cttcggtttc cttgttcgta ccggcg 326

<210> 15287
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D6

<400> 15287

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gagggattaa gctggttgca agtccggctt gcggatatct cgatctatct tctgtgatct 120
tcgacttgca cattacatgg agtgc 145

<210> 15288

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D8

<400> 15288

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gcgctcctcc ggccctgcga gctgcttctc cagcgaaaag gctgctgcgc cttgacgcac 120
caccgatcca ccgccgcca acccgagcgt tctgtccggc agctaggtag cgagctgcgc 180
ggcggtctgt accggaagca gggaggggaa cagggcagcg aacgcccggc gattgccttg 240
c 241

<210> 15289

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-E1

<400> 15289

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gagggcggct atgggcgata tgccgatgag gccggcgcg cggggcccg cgatgcagca 120
ccgtggtccg ccccgatgg cgcgctccg acccgaacca atcgaccgag agaagacctg 180
tcctctgctg ctcatggttt tcacaagggg tgctggtcac caccaaatg aagagtttgc 240
agtgcgaggg aaggaaccaa aggatgaagt tcagatttac acatggaagg atgcgaccct 300
gcgcgagctc actgaacttg tgaaagaagt tgctcttcca gcaggaaaaa ggaatgcaag 360
gc 362

<210> 15290
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-020-Q1-K1-E10

 <400> 15290

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 tatgatgaac cttcaggaaa cggacgagag gcttttctac aagcttttaa ttgataatgt 120
 ggtggagctg cttccttttg ttacacacc aactgtaggt gaggcctgcc agaagtatgg 180
 gtccatcttt ggacgaccac aggtctgtg tgtcagcctg aaggacaagg ggaaggctct 240
 agaagttcta aggaactggc cacataggaa cattcaagtt atctgtgtta ctgatggtga 300
 acgaatcttg ggacttggag actttgggtg tcagggaatg ggaaattctg t 351

<210> 15291
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E11

 <400> 15291

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 cacggtccag agctgcccc ttgccagaag agcaaagatc aacaccaggt ccaggggcag 120
 cagcagtagc gtggcgaagg ggtcaccacc accagccttc cagttccagt gcagggcgctc 180
 gactttcgcg gcggacacca gcctccggct cgagctggac gagaaccccg aggcgatcat 240
 ctggggggcg tggcccgga actgctccct cctcagctac gacgacctnc gcgcctacct 300
 ngagtcgcac gagacggcgg ccaggcaga cgatcagcgc ggcgtggcgc tcctgagcga 360
 gaccatgttc acaccgtgc tgggtggccac agcag 395

<210> 15292
 <211> 188
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-020-Q1-K1-E3

<400> 15292

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agggacaccc tctcctagat atgcagatat gccgcacat ggcgtttctg agtagcagcc 120
aacatatcta ccatgtatag cagcttctcc tagcaaata tactagcacg ccaggagact 180
ccatgcca 188

<210> 15293

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-E4

<400> 15293

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caagaagcgt gaaccatggc ggacgagtac ggccgcagcg gctacggcag gtccggcgcc 120
ggcgacgact acgacagcgg ctacaacagc aagtcgggca ctgatgacta cggccgtggc 180
gaatgtggct acaacaagtc gggcggcgat gacgactact gccgcagcgg 230

<210> 15294

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-E5

<400> 15294

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gctggcagcg gcggccatga ccgacgggcg cgaggagagc accagcagca ggtggccaga 120
gctggccgcc ctgcgcgcgc tggcgcgca cgcgggggcc cgggcccggga gggagacggc 180
ggggtggcgc gggcgggagc gggaggatca ccgtcacggt cacggcaaga cggccaaagt 240
catgcacctg ctgctctggg gacccaaatg aggtgaagtg aagcgctgct gctgcagcac 300
agcacctgcc tatggctcgt ggcccgcgcg c 331

<210> 15295
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E6

 <400> 15295

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 ctcgggctcc cgggcttcgc ttttccgacc agccgaggcc gacgcccttg ctccaccgaa 120
 ccaggcatcc tgccgagcca cgcgacgccg agcaccctgc tctcgcgccc tgtgcgcaag 180
 ccgcgcgcac tgccctgcac ctgcgtctgc acgagctgcg tcgcccattc gcaccgagcg 240
 cgctgagtcg atgcgcgcag ccgcgccttg ctcatagctg cac 283

<210> 15296
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E7

 <400> 15296

 aaccggggcca aactnncac gctcaggcgc tcagctctag caangggcggc caccaccacg 60
 gcgagencct ggacggcgat ggccggtacc cccatcaagg tgggctcctt cggcgagggc 120
 cgcataacca tgcgcaagac cgtgggcaag cccaaggtgg cggcgctccg cagcccctgg 180
 tacggccccg accgcgtcaa gtacctcagc cctttctccg gcgagcccc gagctacctc 240
 accggcgagt tccccggcga ctacggctgg gacaccgacg ggctgtcctg cgaccccgag 300
 accttcgcca agaaccgcga gctggaagtg atccactccc ggtggggcat gctcggcgcg 360
 c 361

<210> 15297
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-020-Q1-K1-E8

 <400> 15297

gggagacgca gaggtcccg c ggcttcgggt t cgtcacctt ctccacggag gaggcgatgc 60
 ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg 120
 agggccagtc ccgcggcggc cgtggaggcg ggcggcggcg ctacggtggt ggccgtggag 180
 gcggcggtta cggcggtggc gggcgccgtg atggcgggcg cggctacggc ggtggcggcg 240
 gcggctacgg tggcgggcgt ggctacggtg gtggtggtgg cggctacggc ggtggcaacc 300
 gtggcgggcg ctacggcaac tccgacggga actggaggaa ctgagcgtg gggcccgcg 360
 ggccaagtta tcctgttcg taccgggatg 390

<210> 15298
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-E9

 <400> 15298

gcaccagcaa tggaggcgag cggcagtcgt gtccggatgg ggagcccggt cccaagcg 60
 cggggangcg ggggcgtggc tactggcttc ggggtctacg cgagtcgct gaacgacgac 120
 attctccggt ccgtcttctc ccggctggac gaccacttcg acctcgcccg ctgctccgcc 180
 gtctgcggct catggaatag gataattgaa acagctcatc tcatgaggga tatgtattac 240
 aaaaggaacc cacctgcatg aggttcaagc tctaatttt cagtaaaaag ttactttgag 300
 atgcttgcca tggatgagca tgcattctgt ttctctagag gacctgctgc agcttttcag 360
 tggactgggc acccaatgag ggcta 385

<210> 15299
 <211> 154
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-F1

 <400> 15299

aagacgactn gnnncancca gccttgaaga tatcgagctt cttttgcacc acaagggcga 60
 ggatgtcttg caactgcgga tcaagctgca gctgcggctc aagctgcaag tgcggcaaga 120

agtaccctga cctggaggag acgagcacccg tcgc

154

<210> 15300

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-F10

<400> 15300

caattctcgg atcgacccat ccgtccaggc gtgctatcct ggcggtagcg ctggatatgg 60

ctagcgcggc accggtgact atccaagagg cggccgtgga tatggtggca actacggaaa 120

caatgctcgt ggtggctatg gtcgtggtgc tgactatgga ctgcgatgtg gggctgaagg 180

cagttttgct gctggaggta gcgacagctt tgggagcagt aactttgctg acagtgctat 240

tggtgaaaac cct 253

<210> 15301

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H4

<400> 15301

cgactcgtcc cagcgcagcc atctgatctg acaaaccaca tattccatgt ttgccttgag 60

aagccccga aggtgaggac ttgtatcttt tgactactgc agaatcttga attggagcag 120

cccaagaata tctaaaatct gcatttggtg cacgtctggc caagcttcct tctgaaggtc 180

tacacgtttt 190

<210> 15302

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H6

<400> 15302

aattccccgg ccgaagaaga ggagaagcga agcaagcagg cttcgagaac aagactgcag 60

ggggaggggg aggaccaagc gaaaggggag ctagaggaag atgggcggcg cactgctgct 120

tgcgctcctc ctgctctctg ctgctgccgc ccctcaggta cttggagttg gcaatggaga 180
 caatcacatg agaatcatcc aggaggacat catcgagaca gtcaacaacc atcccagtgc 240
 tgggtggaca gcctcacgta atccttactt ttcaaactat accattgcgc aatttaagca 300
 catacttgga gtgaaacc 318

<210> 15303
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-H9

 <400> 15303

catcgatccg ccattgctca ccgcacaagt gcacgctcac ctcacacacg cagctaagta 60
 gctaacgccg taggcgagaa caagaaaagg ctcgacatgg ccgaggagaa gaagcagggc 120
 ctgcagctgc tggacttctg ggtgagccca ttccgggcagc gctgccgcat cgcgctggac 180
 gagaagggcc tggcctacga gtacctggag caggacctgg ggaaaaagag cgagctgctc 240
 ctncgcgcca acccggtgca caagaagatc cccgtgctgc tgcacgacgg ccgtcccgtc 300
 tgcgagtccc tcgtcatcgt gcag 324

<210> 15304
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-020-Q1-K1-A11

 <400> 15304

cagatgtgca gacgattctt atttggacag ttatatcatc acaattgggg ttgatttcaa 60
 aatgcgcacg gtggatcaag atgggaagac cataaaactt caaatttggg atactgctgg 120
 gcaagagcgc ttcatgacat ttattagctt ctactaccgt tgagctcatg gaatcattat 180
 tgtatatgac gtgacagacc aagaaagctt caataatgtg aagcaatggt tgaacgagat 240
 agaccgttat gcaagtgata atgttaacaa gtccttgtt gggaacaaga gtgaccttac 300
 tgccaacaaa gttgtggcaa ctgagacagc aaaggcgttt gctgatgaga tgggca 356

<210> 15305
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-A3

 <400> 15305

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 cagcnnccaga cggcaccaac ggggcaactc acggaggcna ngaagaaggc anngaagaga 120
 gcagcaagaa cagccangaa aacggcggac aggnccnacac ggacggcgcg aacanga 177

<210> 15306
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-A6

 <400> 15306

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 caggcccncc gggcggccta ccaggccaac acgangcccg acacggccgn gcccatcgac 120
 gggcaagaaa cncaccnga ctccgngcaa cnaagccag ggaaagcgga gcaangngca 180
 aggcaagaga aacnccacaa gagncaggag acaggaacag aagnaaagga accagangaa 240
 accgggngag cngaaancac ggggcaacag acgctagcaa taaacatggg aactcatcca 300
 tattagccgg atggaaagct atcaattcct gaattcatgt tgaatgagcc ccaacactat 360
 ctggcagaga aag 373

<210> 15307
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-A7

 <400> 15307

 ccctggcggn gngagaatnc nnaaancang tttnagnagg agggaccan gncaccacaa 60

acagaaacta aagcaagtgt tggatttaaa gctgggtgtta aggattataa attgacttac 120
 tacaccccgg agtacgaaac caaggatact gatatcttgg cagcattccg agtaactcct 180
 aagctcgggg ttccgcctga tgaaccagga cctgcagtac ctgcggaatc ttctactggg 240
 ccatggacaa ctgtttggac tgatgg 266

<210> 15308
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-A9
 <400> 15308

agaagacgag tgtcaagtga acctgaaact tgcgggtgtca ctggctggtta tagcctgagt 60
 gtgggtgagt gatcgagcta gctgagctcc gatacctcgt agctagctag gataccgcct 120
 taccacatgt cttcttcaca agtttaggag tgacagcaac aagagatctc gatggcctct 180
 gccaccgtgc tcaagtcctc cttccttccc aagaagtccg aatggggcgc caccaggcag 240
 gccgcgcgc ccaggccgcc caccgtctcc atggctgtcc gcgcctncgc ctacgccgat 300
 gagctcgtga agaccgcgaa aacgatcgcg tcgccgngc ggngcatcct ggcgatggac 360
 gagtcgaacg cgacgtgcgg gaagcggctg gcgttcacg ggctggagaa cac 413

<210> 15309
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-020-Q1-K1-B1
 <400> 15309

aacccccggc cgaccacgc gtgcgagctg cgctactcgc ccgncgcctt gggctttatt 60
 aagatcggaa tcaacggctc ggggacggag ccgcaggctc gtggccaggg tcgccctcca 120
 gagcgaggat gtcgagctcg tcgccgtcaa cgacccttc atcaccacgg actacatgac 180
 ctacatgttc aagtccgaca ccgtccacgg cccctggaag cacagcgcct caccactaaa 240
 ggctccaag acccttgtct tcggagacaa gccgtgcacc ggctttggca atcaggaacc 300

ctgaggaaat cccatggagt gaggtggcg ctgcctatgc cggggagccc accggcgtct 360
ccactgacaa ggacaaggct 380

<210> 15310
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-020-Q1-K1-B12

<400> 15310

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tccggctcgc gcangacata tattcagtga tggaacacaa ggaggccggc tgccagcagc 120
cggagggccc aatcctatgc atcaataact gtggtttctt tggaagcgct gccaccatga 180
acatgtgctc caagtgccac aaggagatga taatgaagca ggagcaggcc cagttggctg 240
cctnctccat cgatagcatt gtcaatggcg gtgataatgg gaaaggacct gcaattg 297

<210> 15311
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-B5

<400> 15311

cacacagcaa tccacacaag cacttcgacg ttacacgggc gctgcacaca gacacaccaa 60
gcgtgggcac caatggctta ctaccaggag gtggactact gctcggagga ggtgaggtcg 120
gtggccccgg ccggcttcgg ccgccacggc ggcggcgctcc agcagcacgt cgtcaaggag 180
aagttcgagg aggtcgacac ggtcgcacgc gccggcgcca accaccacca ccaccatggt 240
caccacggcg gccacggctt cgtggtgcgc gagaccagtg tcgaggagga catcaacacc 300
tgcaccggcg aggtccacga gcgcaggag agcttctcgc ccagggctaa ctgaacagcc 360
cggggggcgg gcattcacgc ccgttcgtgc ctgcctgcgt gccttat 407

<210> 15312
<211> 342
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-B9

<400> 15312

ataccgccat accacaagtc ttcttcacaa gtttaggagt gacagcaaca agagatctcg 60

atggggtctg gcaccgtgct caagtcctac ttccttacca agaagtccga atggggcgcc 120

accaggcagg ccgccgcgct tagaccgtcc accgtctcca tggtcgtccg cgcctacgac 180

tacgccgatg agctctttaa gaccgcgaaa acgatcgctt cttcttggcg gagcattctg 240

gcgatggacg agttttacgc gacgtgcggg aagcggctgg cgtacatcgg gctggagaac 300

acggaagcca accggcaagc gtaccgcacg ctgctgggtca cg 342

<210> 15313

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-020-Q1-K1-C10

<400> 15313

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gtctggttcc aaagttacca agtattacat agaattgtgg aagcaaattc ctgcaaacga 120

gccctaccgg gtgatactag gccatgtaag ggacaagctg tacaacacac gcgagcgtgc 180

tcgccatctg ctggcatctg gagtttctga aatttcagcg gaatcgtcat ttaccagtat 240

cgaagagttc cttgagccac ttgagctgtg ctacaaatca ctgtgtgact gcggcgacaa 300

ggccatcgcg gacgggagcc tncctggacct nctgcgccag gtgttcacgt tcgggctctc 360

cctggtgaag ctggacatcc ggcaggagtc ggagcggaac accgacgtga tcgacgc 417

<210> 15314

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-C11

<400> 15314

agcttgtgct tgctctgggg ggaaggagag ttagagatcg agagagagag agagatctag 60

tacgtaatcg agtacgtggt cctcgaacga agatgttagc ggcgttcagc ggtcaagtgg 120
tggaagtacc tacggagct 139

<210> 15315
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H12

<400> 15315

gtcaaaaagg tcaatgttcc aattcatgct ttgatggctt tgatgcgaag agtgctgtta 60
gttgatggat cattgcataa caagctgttc ccttctacaa cttcattgca tcaagagctt 120
atttgttttg atcttccatc gttacattca actttcttgg atttgctgaa tgcaactatt 180
aaaggcatgc gaagccaact cttacctcat ggtgctagta tcatacggct tataacagag 240
tacttcaaaa tagcaaagct gcctactttg aagacaaaaa cttatagcat tttgcagctg 300
ttgctgacct ccatgggtgt tgggacgtc 329

<210> 15316
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-C2

<400> 15316

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tggggcggggc ccttcgccga agagcagcca acaggtatgc gcaccccttc tcttcctttc 120
ccgctgtgcg aagctgagga cccaaacct agctgacact gttttggcta tttgcgttcg 180
gatcggatct aatttcaggt gtataatgta gtattatgct tgctaacttg attgtcttgc 240
aaaataaaaa catgggtccg ctcatctccc ctactgggtt cgcattggcat atgtaggaat 300
tttagctatc ttttagccga ttgaatcaac 330

<210> 15317
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-C4

<400> 15317

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agcgccattg cctgacgat ggcgcccaaa gctctcctct gcggccggca gctgctgggc 120
cgccccgtgc agtcggccgt ctctaggteg tggcgagga aggcgccctt cgtcgtcagg 180
gccagctcca gccctgcagc caagcaaggt gccgacaggc agctgtggtt cgcgttcaaa 240
cagttcctct cctaccttga t 261

<210> 15318

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F5

<400> 15318

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agagggaaaa gatattgaga tcaatggagg gtatgccggg agccccaagc atgaaaatgt 120
actccaggga cgatctgatg aaaaataact ctggtactga agacgacgac gaggaggatg 180
atgaacatga ggatgacaac ttcccaaaga acttggggaa agctttgaaa aacagggcct 240
ctcaaacgaa ggatttgaac cagcaagtgt tcc 273

<210> 15319

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F7

<400> 15319

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aatggggaag cgccgccgcc gccgatcgac cgccgctga ccatgctgc gctcggcgct 120
cttccgctca gccccgggc tccgacggtc tccggcgacg gccacttat ccaccgacga 180
cgcgccgctc gcagcgtggc tcttcaacgg cctgcctac gccccgtcta ggggtgcgct 240
cctcatcggc ggggagttcg tcgagtcgcg cgccgacgag cagtcgacg tcaccaaccc 300

cgcgacgcag gaggtggtgt cccggatccc gatcaccacg gccgatgagt tcaaagctgc 360
 cgtccatgcc gccaggacgg ccttccccgg ctggcggaac acgcccg 407

<210> 15320
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F8

<400> 15320

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 agcggcatgg cgctctcctc cacggccttc gccggcaagg cctgaacgt gccgtcgtcg 120
 tccgccttcg gcgaggcccc cgtgacgatg cgcaagacgg cggcgaaggc caagccagcg 180
 gcggcgctccg ggagcccgtg gtacggcccc gaccgcgtgc tgtacctggg cccactgtcc 240
 ggcgagccac cgagctacct ga 262

<210> 15321
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G1

<400> 15321

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 tactacgaca atctactacc tgcgccaagt agcgatacta ttacacacga ctttaaccat 120
 acctagcctc aaatacaaac tatcacatga tctataaatt cacatactca tgcacatgc 180
 atccacatat atcttatata ccgaagtcta taacacttaa ttac 224

<210> 15322
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-G10

<400> 15322

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 acggcgagga gctggtgctg gtggcgcta acgtcctgtc cgtggagcac gcgctggagc 120
 gcatggagct cgtgcactcc tgcgtcgaga aggtgcgcat gaacctgcgc acggggcgccg 180
 tgtcacgaac cccgctctcg gcgggtaacc tgcacttcgg cgtgatccac ccgggctacc 240
 ttggccggcg caaccggtac ggatacctcg gcatcggcga ccccatgccg aagatctccg 300
 gagtggccaa gctggacttg gaccgcgccg gcacgggcga ctgcactggg gcgcggcgcg 360
 acttcggggc cgggtgcttc gcgggggagc cggctcttcgt ncccgacgac gtggaggggg 420
 a 421

<210> 15323
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-G11

 <400> 15323

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 gcagggcgcg accccaacct atgcagtacg cagtangcat caagcgtcct gtgtggctgc 120
 atccaagtcc aagcgccgtc cggccaccag cacaggtacc gagccaccaa ggtaggagcc 180
 ggccacggtg cagatcccag gctgccagcc accggcgctc agcactccgg ctgccagcta 240
 ccggccaccc gcagcgcagg ccacactgac gggcagcagc cgcacgacgc tatggctgcc 300
 gacgaacacc gacgggcaaa acccaaaatc caaccaagg gtgggttcaa gctactggaa 360
 ggcaatgca 369

<210> 15324
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-G12

 <400> 15324

atttttcccg gcctccgtc cggccagatc ggctcgggtg aaccccagcc cctaccgatc 60
 cggatccgtc cccatcgct cgtgtgtttt ccgtcgagta ttttagcgtg tgtgtcccc 120

cctcttccgct tcggttggtg cgtgcggctg tctcgggtag atctgtggtt tggttcgcct 180
tgaaggcgcg cggcggcggt gtcgcggctt gtagcttgcg atttcacggt ggagcttgtc 240
ggctgttggg gtcggatttg gagtttgta tggcgtctaa gcgcaccctc aaggagctga 300
aggacctgca gaaagacccc cccacatcat gcagtgaag tcctgctggt gaggacatgt 360
ttcattggca agcaacaatt atgggaccac ctgacagtcc ctatgctggt ggtgttttct 420
tagtgaacat tcatttgccg ccagattacc cc 452

<210> 15325

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G2

<400> 15325

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cttggccacg accattatcc tccagtagta agtcaccatg tcttcgtcca tgcaatcttc 120
ataccttcct gctaccactg agtccgtagc caaggctcag gaggccaagg acgcttctga 180
gtccatctca atcctctacc gcgtgcttga ggatccctct tcattctgcg atgccctgag 240
agtaaaagag cttgccatca cgaatctaac aaactaccta acaaaagaca ccagagctga 300
agacctaagg aaccttttga ccagttaag gccctttttt gcattgatcc ccagggcgaa 360
aactgcaaaa attgtgctg gcacattga tgccgttgcc aagggtgctg gaaca 415

<210> 15326

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G4

<400> 15326

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cctgacctg gccgccttga ggaaaagcaa ggccaacgcc ttctctgtct cctcctctcc 120
accgaggtcg cgcgcgcgc ttgccgtcac gatggcgcg tcgctgctcg tgctcgccgt 180
ggcgttcctg gttggcgctg gccacggcgg catcgatggg ggtgcagcag ctcacgtgga 240

ggtagagggc tctgaggtga cctacgggag tgcgattaag ctgttgacg agaagacaaa 300
gcaccgtctg aactcacatg atgtgccgta cggctcaggc agcggtcagc agtctgtcac 360
cggcttttct gaaggcgatg actcaaatag ctactggatc ataaagccta ctccagatcc 420
atcg 424

<210> 15327
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-019-Q1-K1-G5
<400> 15327

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aaaagcgcac ttaccctttc ggatcccaca atagtccatc tttctgtcat cattgcacct 120
gctccagagt atcagccacc tcctactgcc tctgctccac caatgagtgg aaccagactt 180
ccagttcatg attgacacaa caactttgtt cacaaacccc atgactttgt gaccactatc 240
cttcccaagg tttctctcct agccaaatac ccttttttca aggccaaacc ttttattaaa 300
aac 303

<210> 15328
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-019-Q1-K1-G6
<400> 15328

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attgaggctc gtgacagaag caatgacttc tgagacacat cggaattccc tatcatttgc 120
tgaaaaggaa attaaggctg aactcctcgt gaatttgcca gataccctac ttctgaactg 180
gcttttccat tgcttatcgg actgctatac tgtaatacca gcccttgtga agtactagat 240
tattggtact atntcataag aactgaaagc ttctgcttgc caccatgaaa agggacaata 300
tgtccatgct tgaaaagaat gatctatcag agaaatcagt cttggctctt tgattcatct 360

gtgatggatg actcttcggt atgggtggtat tggcagtcaa gctctggcaa gccaaagcaa 420
gcccatacac actact 436

<210> 15329
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G8

<400> 15329

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cgggcttcac tgtccctct cgtctcctct cctctcccat ggctcagcgc gacaagaagg 120
tggaggagcc gacggagctg cgcgcgcgg agctcacgct gtgcgccaac agctgcggct 180
tcccgggcaa cccggccacc aacaacctct gccaggcctg ctttctgggc cgcacggggt 240
tcttcttcgg cttccgcttg gcggcggcgg ccttcttctt cttggcttcc gcggggcttc 300
aattcgacga ccagcagcaa aatcccaagc cctgtgcccc ggccgcgttc gggcccaccg 360
aggaac 366

<210> 15330
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F4

<400> 15330

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ggtaaactgt gtggctgaag ctgctgctga ggattcggga tcttcttgct gccgccacga 180
gctgcctgcg tgatattgac acggcgcgct cccctggctc ctgggcatga cgaggggagg 240
cgggtggaaa ggaggcaagg aggagccggg gaaggtgatg ggtccgctgt tcccgcggt 300
ccacgtcacc gacgcaggca aggccggcgg cccgcggcct cggccaagga ccaggatggc 360
cctctacaac cagttaaccg tgccgtccaa cegttaagt tccc 404

<210> 15331

<211> 367
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-D11

<400> 15331

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cctgggtctgg cacctccgtc tgcgtctccg tccgtatata agaagccaga tttcgaattc  120
cctcctnctn cgnctctccc gcagtccttc tcctcctttc cctcccccggt cgcgatcgct  180
ctgtgctccg nctacgtccg tcaaggcctg ctcttgccgc gttccttctc gcccaatccg  240
ncaggggatg gccacattcg agctctaccg gaggtccacc attggcacct gcctcaccga  300
gacgctggac gaagctcgtc tcagcggggg ccgtcagccc cggaactcgc cttccagtcc  360
atgactg                                           367
  
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<210> 15332
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-D12

<400> 15332

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gccctactgg tttcaagtgt gggataaaact acctaccacc aactgtagtc cctgaagggg  180
acctgggtcaa ggtgcatcga gcagtctgca tgatcagcaa catcacagtc gtggctgacg  240
tcttctatcg tattgaccgc aagtctgata tcatgtatgc caaacgtgca ttcgttcatt  300
gacatgtcag tgaatggatg tgaagaaggg gagttctcag aggcacgga ggatcatgca  360
tactgggaga acgattatga ggaagtcgga cctgaagttg aagatgagga cgagtgaact  420
gattattgag tcatcgatct ggatgcat                                           448
  
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<210> 15333
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-D4

<400> 15333

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accgttccgg gcggcgatgc cgcggcgagg gcgtgcgagg aggaacggct gcaaggctcg 180
cggctgcgag tccgtcccg aggagcaagc cgagctgccg ccgcttgccg tcgatggcac 240
cgatgaaga 249

<210> 15334

<211> 147

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-019-Q1-K1-E1

<400> 15334

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gttatctgat gactcagatg acgaggggcc gatgggggta atgagaaagg ttgaggagaa 120
aaaattgaaa ggagttgata ctccggt 147

<210> 15335

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E11

<400> 15335

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atcgttttgg ttagattttt gcaaagggtt catttacgcc taatccatat cgagtagacc 120
ctgtcgttgt gagaattctt aattcatgag ttgtaggag ggacttatgt caccacaaac 180
agaaactaaa gcaagtgttg gatttaaagc tgggtgtaag gattataaat tgacttacta 240
caccgccgag tacgaaacca aggatactga tatcttgga gcattccgag taactcctca 300
gctcgggggt ccgcctgaag aagcaggagc tgcagtagct gcggaatctt ctactggtac 360

atggacaact gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta 420
tcacatcgag cccgttcctg 440

<210> 15336
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E12

<400> 15336

cttaccaaaa cagaggagcc cgtcggccgt cgcaaaaaaa aaaaaaaaaa caaaacaaga 60
ccagcgcacg atggaatcgc tgacgcttcg cgcttcgacg gccgcctcgc cgctgcagcg 120
acgccggctg ctccccggac ggcagcgcgc gacgtacgtc cgcgccacgg cctccgccgg 180
cgagccggac ctctccgtgc gcgtgaacgg gctgcagatg cccaaccgt tcgtgatcgg 240
gtcggggcca ccgggcacca actacaccgt catgaagcgc gccttcgacg agggctgggg 300
cgccgtcatc gccaaactg tgcattgga tgctgaaaaa gttatcaacg ttactcctcg 360
ttatgcaaag cttcgggcag aaccaaattg ggctgccatg gggcgcatca ttggctggca 420
gaacattgaa ctcatcaggg acagg 445

<210> 15337
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E2

<400> 15337

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agcgtggacc ggtggattgg gcttgggcca tgccgctgcg gctcaccgcc ggcaccgtcc 120
cgggcggcga tgccgcggcg cgggcgtgcg aggaggaacg gcggcaaggt cgtcggctgc 180
gcgtccgtcc cgcgggagca ggccgagctg ccgccgcttg ccgtcgatgg caccgaggaa 240
gaaggcgtag gcggttgccg accgtgcgga ggcccggggg ggttgctctg caacttttgc 300
cagggcagga agaccaccgc caagccggaa acgcggaccc ggttgtagcg cgggtgtcca 360
acttccaagg ttgcggcctt aatccggggc caaaaagcca ggt 403

<210> 15338
 <211> 256
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-E3

<400> 15338

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 atgtacaacg agtggccatt cttcaaggtc accctggacc tgctcgagat ggttctcgcc 180
 aaaggagacc ccgacattgc cggcttgtat gacgagctgc ttgttgcgga agaactcaag 240
 cncctttggga agcagc 256

<210> 15339
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E6

<400> 15339

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 ccgggggttcg gggtcgtggg tgggcggatc gagatggcgg cgtcggatgt tgagtaccgc 120
 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccg 240
 ggcttcagct tcgtcacctt tctccacgga ggaagcgatg cggaacgcca tcgaaggcat 300
 gaacggcaag gaacttgacg gccgcaaca 329

<210> 15340
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E9

<400> 15340

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aaggttctgc agagggcgct gaagctgctg gaggacgcgc cggggcagtg gagcaccgtc 120
gctgggatcg aggcgcagat gggcgtgctg tactacatgg tggggaggta cgcgagtcg 180
aggagctcgt tcgagagcgc ggtcgcgaag ctgagggcca gcggcgagag gaaagtcggc 240
gttttcggcg 250

<210> 15341
<211> 315
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-019-Q1-K1-F1
<400> 15341

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agtcctatcc ccctctaaca tggccatcga gcaccacctc tggatctccc tggctctgat 120
agacatgctc aaccatgtgg ccactcttca gggtcaccct actacctact gcatatacct 180
cgtgctgaag tagaccccg gctactcgga caccatgacg agctgcttgt agcccaagaa 240
ctgaaaccct ttgggaaact tctgaatccc cagactctgg acacacagca actactgctc 300
tacatcgtcg aactc 315

<210> 15342
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-019-Q1-K1-F10
<400> 15342

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gaggagtgcg cgtgcagcgt ggccgaggcc gctgacacag ttcgagcggc tgcactacgc 120
ggctgctgctc gacgtcctca atcgcatcgg cgacgtcaag gcgctcagcc gctgcgcctc 180
cgtatcgcgc cgcttgacag cgctcgtgcc gctcgtcgac tccgtcttcg tccgcgtcta 240
ctgcgtcata cctgacgacc cgccgtcctc gtctcctgc tctacttct cctattgcgc 300
cgcacatgc acctccgacg aggaggcgcc agcctcaacc gcgcgcgggc gcagcgcgct 360
agcgcacatc gcgcgcgtgc tgctcagcgg catcggcagg cccatgcacg cgctc 415

<210> 15343
 <211> 153
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-F11

 <400> 15343

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 caagaaggag tgggcgtaga gcgtggccga agccgatgac cagttcgagc gggtgcacta 120
 cgcggtgctg ctgcacgtcc tcaatcgcat cgg 153

<210> 15344
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-F12

 <400> 15344

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 ccaggccgcc tgctcgctct cgccgtcgtc gccctcgagg ccaccgccgt cgcggccaac 120
 tccggtctcg cggactcgaa cccgatccgc cccgtcaccg accgcgcggc ctncgcgctc 180
 gagtccacgg tcttcgccgc gtcggccgc accgcgcagc cgctccgctt cgcacgcttc 240
 gctgtgaggt acggcaagag ctacgagagc gcggcggagg tccacaagcg gttcaggatc 300
 ttctccgaga gtctccagct cgtccgctcc accaatcgga aaggcctctc ctaccgcctc 360
 ggcataaacc gcttcgcgga catgagctgg gaggagtcc gtgcg 405

<210> 15345
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-019-Q1-K1-D10

 <400> 15345

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caaggggttgg atttaaagct ggtggttaagg attataaatt gacttactac accccggagt 120
acgaaaccaa ggatactgat atcttggcag cattccgagt aactcctcag ctcggggttc 180
cgcttgaaga agcaggagct gcagtagctg cggaatcttc tactggtaca tggacaactg 240
tttggactga tggacttacc agtcttgatc gttacaaagg acgatgctat cacatcgagc 300
ccgttctctgg ggaccagat caatatatct gctatgtagc ttatccatta gacctatntg 360
aaaggggggtt ctgttactaa catgt 385

<210> 15346

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B5

<400> 15346

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ccaagtcgcy cacgtcatg gacgagatag cgatcgagc cacggaggag taccactcct 120
tcgacttcaa ggagccgcy ttcgtcgaga tacttcacat cggctacacc gcagaccgag 180
taccgtaaga tgaacatcg 199

<210> 15347

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B6

<400> 15347

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ttgagcaaag tgcagaagtt gatcgctgca tctccacatg tacttattga gggggatcct 120
tgccttggca aatccttggc ggtgagcaag aaaaggctgg ctggagatgt ggaaacacag 180
cttgaatcag ctaaaaacga tgatggcgtg cgaccaacgc agctagagca ctcgaaagag 240
aaaactgaac caaaccaacc ttaaccattt aaagacaaac aggccgaacc taatggtgac 300
tttcttgctt caatccttac cctttccacc accaaccaga aaacttgtgc ctttcttg 358

<210> 15348
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-C10

 <400> 15348

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 ctcggttag aagaagcacc agtgctgat cgatggcggg cccaggctct cctttccggc 120
 cgcaactgct gggcccgccc cgtgcagtcc ggcgctctta ggtcgtccgg cgacgaatgc 180
 ccccttcgt cgtca 195

<210> 15349
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-C11

 <400> 15349

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 cagaaccagg acggccgtcg tcatcgctcag ggcgcttcgag gaggcgacg ccgttgcgca 180
 tgccggccgt cgcccgctga tcgggctggt ggccactggc atcg 224

<210> 15350
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-C12

 <400> 15350

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 tggcccgggt cgggttcggc ggctgaaagc ccaatgctgc cgtgccgaag aaggtggcga 180
 agacgtcgat ctctctgac cggccgctgt ggttaccgg ctccgtggcg cccgactacc 240
 tcgacggctc gctggtcggc gactacgggt tcgaccggtt cgggctcggg aagcccgtag 300

agtacctgca gttcgaactg gactcgc

327

<210> 15351

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C2

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tccagcgaat ttagaacacg gcgctttatt actacgaccg cataaacacca aactcgttat 120

tgacaaaact ttccacacacc gccaacata gcaccccatc aaccaggccc tcatatacaa 180

cgacctcaac ttcattaaaa ctaccaccct actcgactt gcaactaaca atgggtcttac 240

cgtcatagat aatacacgaa cgctcgccct gggtaaccag gacaaccctt gttaaaaagc 300

cgatgccctt aagaactttt ttgccaggac cga 333

<210> 15352

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C4

<400> 15352

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cgagctttga gcgcagattt ggtgcccgcg atctgccatg gatttgattt aagatttagg 120

gagatcggtc gtgttcgcgt cgcgctgcga gattcgattt tttatgtctg ttttattcac 180

gagattgcaa gaacgggact gctaagcaag ctaagatctc attttttttc tggatcaatc 240

tcaaattagg atttaggagg aggaaataaa gcaagaatag aaagtttttt ttttggggtg 300

aacctgatg cttgaaagga aagtctaact tggttcgggc tttttgctga acttctggga 360

gaccgaaacc caatgggcgt accttgccca ccaagttctt ggggg 405

<210> 15353

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C5

<400> 15353

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cgacaacctt ttcagccaca ctatcgaccc tggccaaccc accattttcc aggccttcac 180
ccccaaatca tgagctctga tgaacttggc agttcgaaga gtgctaccac acatgcatgc 240
attgttaagt ttgatagccg atatggaact ttttctttat gttagcggca gactactggg 300
tagactgtca acgatgatga tgaatatgat gaaatgttcg ttgtgcgatg catgggtgtac 360
ttgtactatg ttgcaactaa tgtaaaa 387

<210> 15354

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C6

<400> 15354

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tttagggcga cgcgcgcgcg tcctacgtcc agcggccagg ttttcttctg gccctctgcg 120
ctgactacaa cccaccacct ccggggttagg ttttggattt ggagacatgg cggaagtggg 180
ggacaagctc aaggactacg atatcaagaa ggagggagaa gcagagat 228

<210> 15355

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B11

<400> 15355

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tggcgctcga gcctgttgcg cggtcggtgg ctgaggatgt gggccgctgg ggcagcatga 120
agcagacggg ggtgacctg cggtagatga tggagttcgg ctcccggccc atccaagcgc 180
aaccttgttc ttttcgcgca attgctgcac aaggggctcc ccattcgggt tgggcccgcct 240

gccgctgaac ctgaatcggg tgcctttggc cttttcaaca aggccggcat tcttaaagtt 300
ccggactggg acatggactt atttcgggac attaaattcc ttcctgaaat gaggagcctg 360
aacgaccaac tcgctttcac gcagatgata aacatgggtca aagtgcggca tatcaatgtg 420

<210> 15356
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-C9

<400> 15356

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ttcaccgccc cgcccggccc ctccctccgc ctccgccccg ccggccggcg gtcggcccg 180
tctcgcctc gggccaccaa agctgtgggt gcagcgttgg ctgatcctct caagggcattg 240
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caactggcgc acatcttcgc cggagatttg ttgcggggcg agatcgctgc tggctctgag 360
aatgggaagc gggccaagga attcatggag aaaggccagc tcgtgcctga tgagattgtc 420
gctaatatg 429

<210> 15357
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-D1

<400> 15357

agcaactagc aacacctctt ctctttttac ttgcctcgc ctgcctcgc cataacgaca 60
cgcgcatctc cctacctcga tacgattctt cgtcttctct tccccgcgat cgcgccagcg 120
ccccgaaaa accctaacta cctggagcct cgacggcacc tgccgcaggc gacggcgagc 180
gaccccgagg ggtggtagac ggcgcagcgg gttgcccctt gtggaggcgg acggcacggc 240
gcaggctcct gccttcccgg ctatgcgaat tgcggtatga agctcaagcg gcgacgcgcg 300
gtagaagtgc ctccaagtat aaaatctttc atcaacagtg ttaccactgt tcctcttgag 360

gatgtagaat tgccgctgaa ggatttttgca tgggaatttg acaaggggga ttttcatcac 420
 tggttggacc ttttcaatca ttttgattc 449

<210> 15358
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-H5
 <400> 15358

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 gttgttgaga aactgcccc a ctgcatgtag gacttcattt gcaacctcat ttgaaagtgt 120
 atcaacaacc ggtccagttt gctccatcaa ctttacaagt aattcagcat caccagtcga 180
 aagaagttca gcataagcag agtccatata ctcaagatga acagcatcca tcgcacgagt 240
 ccaggcctcc caaagtgggc ctctttcatc cccttgggtg tcatcattca aagcttctcc 300
 atccagttca ggaatagcaa ctcttgcagc ggcccttgaa tttccattat cttcaccagc 360
 tactetaata gcttccagtg ttgcttcata ttttgaggcc cgccatgcac ttcgggcaga 420
 aggaccctca ccgaacctaa aggg 444

<210> 15359
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-H7
 <400> 15359

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 ctccgtgaag gaagtgtgc cgtctccctt gacctccgcc tccgagcccc ctcccctttt 120
 cgatggcacc accaggttgt acgtggccta tctttgcccc ttcgcgcagc gcgcttgat 180
 tgctagaaac tacaagggtc tgcaggacaa gattaagata gttgccatcg atctcgctga 240
 caggccagcg tggtaacagg agaaggttta tccagaaaac aaggtgcctt ctctagagca 300
 cgacaaccag gtgaaaggag agagcttgga tttggttaag tacattgaca gcaacttcga 360
 aggtccatcg ttgctccccg aggatcatgc aaaggcacag ttcattgagg agctgctcgg 420

ataccctgac gcattca

437

<210> 15360
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-018-Q1-K1-H8

<400> 15360

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aaccaagcaa atggaggcat gagctccgcc gcctncccgt ctctcgccga tctcccccaa 120
accctagcct cgacctgacc gccagcgggc cgcgaggccg gagaaggagt cggaatcgcc 180
cccaccacc caccctctgc cgcgggcggg gagcgggcgg cggacgagat gccgtcgcac 240
ggggatctgg accggcagat cgcgcagctg cgcgactgca agtacctgcc cgaggcggag 300
gtcaagggtgc tctgcgagca ggccaaggcc atcctcatgg aagaatggaa cgtgcagccc 360
gtgccgctgc ccg 373

<210> 15361
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A1

<400> 15361

caggccgcag tgatgaaact gtgtcaatga ttgaagcata cctgcgagcc aataaaatgt 60
ttgtggacta cgatgagcct tcaacagaga gaatatactc atcttatctt gagctgaacc 120
ttgatgaggt ggagcctagc atgtctggcc caaagaggcc tcatgatcgt gtccttttga 180
aggaaatgaa atcagattgg catgcttgcc tggacaacaa agttgggttc aagggttttg 240
cagtgcacaa ggagcagcac gataaggggtg tcaaatttga 280

<210> 15362
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A10

<400> 15362

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tctgggtccgg tcacaggagc tccgactccg agccctctcc aatggcggtt aaggtctacg 120
tcgtgtacta ttccatgtat ggacatgttg gcaaactagc tgaagagatc cagaaagggtg 180
cctcgtctgt tgaagggtgtt gaagctaaaa catggcaggt ccctgaaacc ctccctgagg 240
aagtgcttgg aaagatgggc gcacccccta agcctgacgt gccagtcac acgccgcaag 300
aactcgc 307

<210> 15363

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A11

<400> 15363

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tttgatctgg gaaactgcga atggattatt aaatcagtta taggtcgggt gatggctcgt 120
gctactcgta taaccgtagt aatcatagag ctaatacgtg caacaagacc ccgacttgcg 180
ggaagggcgc atttattaga taaaaagctt acccgggctc ttcccggcga tccgatgatt 240
catgattact tgaccgatcg cacggcctta atgccggcga cgcattattc aaatttctgg 300
cctatcaact ttccatggga agatatgggc ctaccatggt ggtgaccggt gacagaga 358

<210> 15364

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A3

<400> 15364

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tacctctgtg caccagctag gtcatggggg tctgtctcta ccatggacag gcccaactcc 120
gcgcgctcgc cggatccctt gctaggcacc gactgccgga cctcgtgctc tcgtgatctc 180

actactatgt gccgcacgt cgtcagtgcc tctggcgct tgcagggcgc gctgctccct 240
tcaggctact cgcggtagcc atctgctctg ctcgaccact agactcttac atgggtcatg 299

<210> 15365
<211> 154
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-019-Q1-K1-A5

<400> 15365

ctttccggga cgaccgangc gagccacacg tccgcgattt gcgagctcgg cttegaccta 60
ccgctatctg tatgtcagtg cagcagctcg ggactgctgg gactgctcta ccatggccga 120
tgcccaacat cgtgcgctcg ccggatcccc tgct 154

<210> 15366
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A6

<400> 15366

catatctcca agaaccaaag gtagctagct agccgcgact cgttggctag acgattcaag 60
cagcggcgca ggatgggtggc gccgggtggtg attgcgtcgg ccgggctggg catgctggcc 120
ggcgtggcga tggccaaccg gtccctcggg aacgggctcc cggcggcctc cagggtggaac 180
gcgcgcccgc gctgcgccac gtgcggcggc tctggccgcg tggagtgcac ctgcaaccgc 240
tggtccgacg gcgactccgg ctgccggacc tgcgctgggt cggggaggat gccctgccgc 300
agctgcgggc gctccggcac gggccgaccg ttccttgccg ggttcaccgt ccagcaccag 360
aagccgccgc cgcgcgccgc aggtacaaat tgatcgatgg tggatgatta 410

<210> 15367
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-A7

<400> 15367

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 ggacgtcaac ggcatttccc tccacgtcgc agagcgcggc gccgtcgacg cgccggcggt 120
 cctcctcatt cacggcttcc cggagctctg gctctcgtgg cgccaccaga tggccgcgct 180
 cgccgtccgc ggcttccgcg cgtgggcccc cgacctccgt ggctacggcg actcgtccgt 240
 gccaccgac cccgccgact actccatcct ccacatcgtc ggcgacttgg tcgcgtcctc 300
 tgaccacctc caactcacia aggtgttcgt ggttgggcac gactggggcg cgatggtggc 360
 gtggcacctc tgcctgtt 378

<210> 15368
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-B10
 <400> 15368

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 gatgtccgct tgctgctgcg cttccaacac catggacggc gggggatccg gcaatgcctc 120
 cggcggcagc ggccggcgcat cgacgtgctg ctactacgcg ctctcggca tccgaagaa 180
 cgctccgtc accgacatac gcgccgttta ccggaggctc gcgatgaagt ggcacccgga 240
 ccggtggggc agcgaccccg gcgcggccgg cgaggccaat cagcggttcc agcggatcca 300
 ggaagcatac tccgttctgt cggacaaggg gaagaaagcc atgtacgacg ccgggctctt 360
 cgacccctc gacgacgacg accaggattt ctccgacttc atgcatgaga tgctggtgat 420
 gatggatagc gtgaaaaacg agaag 445

<210> 15369
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-G10
 <400> 15369

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tgctgcgact cttattgaac tgattactcg acattttcct ggtttccggg accattcact 120
 ctacaagggg caccacgttt tcctgtacaa gagagcccag atctttgttg ctgatttgtg 180
 gggcgccctt aagggacaaa actatggcga gttccacgat atcaattcca tcaccatatt 240
 tgctgactac attgttccag cggtcctgag ggagcttggg gtacttaaata atggctcgaa 300
 tctatcttgc tccatcgact cgaacagtga gatagtgcct ggaagcgacg aggaagtggg 360
 gatacgcgcg tgctccatct atgcagtggg gaagatgacg gacctgatca gc 412

<210> 15370

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G11

<400> 15370

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 tcatgaccag cgaggcgctg cgaatggact gtccatgact gggatgtcct ttttcaaggc 120
 acttgtccca gcaggagcag gcattgtgtt ctcattggcg cagaaacgcc agcatgcgtt 180
 tttcttccca ggtgaccaga tggattctt cctcctgaac gccgtcgagc tggtcgggct 240
 tctcctcagc ttcaagccct tcctggcagt accagagcag tacgattcga gatagttaga 300
 cgatctatct atctatacaa gttctggaac gttcaagacg attcatcgtg tgcggctgta 360
 ccattgaag 369

<210> 15371

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G2

<400> 15371

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 gccggcgtga actccagcgt cgtcgggctc aagcccgcgc cggcagtgcc gcaggccgac 120
 gccggctcat cgtcggcgaa gcgagtgcag ctggccgcgc ccgagggccg tcgcgccgct 180
 ctgctcggcc tggcgccgct cttcgccgct acggccacca ccgggtcggc caaggccacg 240

atcttcgatg agtacctcga gaagagcaag gccacaagg agctgaacga caagaagagg 300
ctggccacca gtggagccaa ctttgcgcg gcctacaccg tggagttcgg cagctgccag 360
ttccccctaca acttcactgg gtgccaggac ctcgccaaagc agaagatagt ccccttcac 420
agcgacgacc tcgagattg 439

<210> 15372
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-018-Q1-K1-G3
<400> 15372

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gggcgggcgtg aactccagcg tcgtcgggct caagcccgcc ggggcagtgc cgcaggccgc 120
cgccgcctca tcgtcggcga agcgggtgca gctggccgcg cccgagggcc gtcgcgccgc 180
tctgctcggc ctggcgggccg tcttcgcgt caccgggtcacc accgggtcgg ccaaggccac 240
gatcttcgat gactacctcg agaagagcaa ggccaacaag gagctgaacg acaagaagag 300
gctggccacc agtggagcca actttgcgcy cgcctacacc gtggagttcg gcagctgcca 360
gttccccctac aacttcactg ggtgccagga ctcgccaaag cagaagatag tccccctcat 420
cagcgacgac ctcgagattg agtg 444

<210> 15373
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-018-Q1-K1-G4
<400> 15373

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cgcgtcgggtt ttgttcagtt catcaagtgc cattccattg tctggtactc tgggtgccaca 120
gcaaccatcc ttccacctcg ccgtgggtcag agcatctcga gaagtttgtt acccagaacg 180
gagttgcgcc accgcagacc ggagccgtga acagcctctg tgttgaccga acaactcacg 240
ctttctccgg tcgattcctt gtgagcacca aagtttagaa ctctaccag aaggagtga 300

gattcaagct gaagtgggtga ctgaagagga gtctactcca gtggctgctg atcaagtgga 360
 ggagccatct aactgggggtt taatagaggg atcgagtacc tcttcactgc aacanagggtg 420
 atgaggagta ttct 434

<210> 15374
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-G6
 <400> 15374

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 aaagcggcct attttaactg gtgatctaca agtcacacta aaagaagggtg tgggaacaat 120
 tggggagctt acattcacag ataactctag ctggataagg agtaggaaat tcagacttgg 180
 cttgaagatt gcctcaggat tttgtgaggg tgttcgcatt cgtgaggcaa aaacagaagc 240
 ctttatgggtt aaggaccata gaggagaatt gtacaagaag cactatccac ctacactgaa 300
 agatgagggtc tggagggttg aaaaaatagg gaaggacggg tcattccata agaggctgaa 360
 caaatctgga atatctacag ttgaggattt ccttaggctt gtggttcggg atccacagan 420
 attacgcagt atacttggaa gtg 443

<210> 15375
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-G9
 <400> 15375

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 ctgcgtccct cctgtccccg gctcagcaat cctatccacg gcttccccgc tccgtccgcc 120
 tctgcctctc tcatcacgag caacctccca cgggccccaa gcggcaccga cgcgcgcgca 180
 cttctcatcc tgccttttct gcagccgcgc ggggtcgtgc caagaagatt cccatcgagg 240
 acaccgatga gcccgccgcc ggagtccgcg tcaccgatca cggcatctct taccgcctcg 300

atggcgcgcc atttgagttt cagtatagct acactgaggc cccacgcgca cgccccgtag 360
cgctccgtga ggccccgttc atgccgttcg ggccccgaggc caccgccacgc ncgtggacgg 420
gaggaagcc 429

<210> 15376

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H1

<400> 15376

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cccaccggct cctcgtggtg tccccagat cacggtctgc ttcgacatcg acgccaacgg 120
catcctgaac gtgtctgccg aggacaagac gacggggcag aagaacaaga tcacaatcac 180
caacgacaag ggccgtctgt ccaaggagga gatcgagaag atggtgcagg acgcggagaa 240
gtacaagtcg gaggacgagg agcacaagaa gaaggtggag tccaagaact cgctggagaa 300
ctacgcctac aacatgcgca acacgatcaa ggacgagaag atcgcgtcga agctggctgc 360
cgacgacaag aagaagatcg aggacgccat cgacgcggcc atcagctggc tggacgcaa 420
ccagctcgcc gaggcggacg agttcgat 448

<210> 15377

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H10

<400> 15377

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aactaaagca agtgttgat ggaaagctgg tgtcaaggat tataaattga cttactacac 120
cccgagtag gaaaccaagg atactgatat cttggcagca ttccgagtaa ctctcagct 180
cggggttccg cctgaagaag caggatctgc agtagctgcg gaatcttcta ctggtacatg 240
gacaactgtt tggactgatg gacttaccag tcttgatcgt tacataggac gatgctatca 300
catcgagccc gttcctgggg acccagatca atatatctga tatgtagctt atccattata 360

cctatttgaa gagggttctg ttact

385

<210> 15378

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H12

<400> 15378

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aaagaaaaga gaatacaaaa atggaaacgg gccagacct ccactggggg gaaacccttg 120

catactgagc aggctgcagc agggcatgtc aaaacggggc ccgatttaga ccgcattgtc 180

cgttgcatg ccacactctt tgcacgacat ctactggatc tggatacatc ttattctacc 240

tccaccagaa ggatcactcc aaattcaaaa gaaaggggta agaccatctc tatgacccca 300

ccttgaatat gaccgaatca ctatgtgggt tcgaactggc cttacacat tgggacaaca 360

ggcaactcct catcaaatca caccgtgggt aagttgctaa acctgaccaa tccaaggcga 420

ttaatgatga agggatg 437

<210> 15379

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G1

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ggatgcagca atgctgcgtc ggctggagaa gcgtattctt gttccattgc cagagccgga 120

tgctagacat gctatgtttg aagagctcct gccatataca cctggcacia tggagattcc 180

ctatgatgtt cttgtggaga aaactgaagg gtattctggc tctgatattc gcctggtatg 240

caaggaagca gcaatgcagc ccctaagacg ggtaatggca gttcttgaag gcaggaaaga 300

agaggccctt gaggggtgagt tgcctgaagt tggcccagta actacagaag atattgaact 360

tgctttgagg aatacaagac cgtctgcaca tcttcatgca catagatagc aaaagttcaa 420

ccaagattat ggcagtcattg tacatgg 447

<210> 15380
 <211> 83
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-E12

 <400> 15380

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 aaggagcaag cggataagag gga 83

<210> 15381
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-E2

 <400> 15381

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 ctgctatagt aaccgtccct ctcggggtac tcaaggcaaa catcatcaag tttgagcctg 120

 agctaccgaa agagaagctc tcggcaatcg ccgaccttgg cgtcgggtatc gagaacaaga 180

 tagctctcaa gtctgacact gtgttttggc ccgacgttga agtgataggt aggggtggccc 240

 cgacgtcaaa cgctgtggc tacttttctca accttaacaa agccacagga aacccggtcc 300

 tgggtgtgcat ggtggccgga aggttcgcgt acgagatcga gaagctgtcg gacgaagagt 360

 ccgtgaactt cgtcatgtcc caactcagga acatgctgcc gcaggcaact gacccggttc 420

 agtatctggt ctcg 434

<210> 15382
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-E3

 <400> 15382

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aaccctgcaa ctgcaacaag cctgacgct taatacatcg gccgggactt gatcggcagc 120
 agatcaaaga ttgccgccga cgaaggggag aaggcgaaaa accgccgccg ccggcaacaa 180
 aataacggtg ttgcggggct tgacgttgcg cgggacatgg gccggtggta cgagatcgcg 240
 tcgttcccgt gccttttcca gacgtcggac ggccgcgaca cgcgcgccat ctaccggctg 300
 ctggaggacg gcgccacggt gcacgtgctc aacgagacgt ggagcaaggg caagcgcgac 360
 tacatcgagg gcacggtcta caaggccgac cccggcagcg acgaggccaa gctcaaggtc 420
 aagttctacc tgccgacctt cctccgcata gtccccgtcg tcg 463

<210> 15383

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-E4

<400> 15383

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 tccatagcag gctagcagct gaccgaggtc aactcttccg ccggcggaaa gagagggagg 120
 gagcggggaa gagacgggag ggtctccgcg cacctgccat cagccaccac ccgataccca 180
 ggtcttgctc cgcgagatc tgctgctgcc cttgagatct aaatcaaagc ttccgctccg 240
 gttgttgctg gttggtcggt acctgggcgg cgcgccggc gccacgggag gacagcgaac 300
 atgtcgtcga gcacgatccg gaaggccctg ngcgcggtga aggaccagac cagcatcagc 360
 ctgccaaagg tactagcaa catcgcgccc gatctggacg tgctcatcgt caaggccacc 420
 agccacgacg acgagccggc cga 443

<210> 15384

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E5

<400> 15384

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 catggcctca tcagagccta tagagtgccg ggttggtggc ctgaggggtg cgattcactg 120

ccaaggatgc aagaagaagg tgaagaaggt gctccagaac atcagcggcg tgtaccgatg 180
 cgaaatcgat gcccgagca acaaggtcgt ggcgacggtc tcgacggagc tcgacccta 240
 catgctggtc gccaaagtgc gcaagtccgg caagcaggcg gagctgtggc cggagcagcc 300
 ggtgcagcag caggagcagc cggcaccagt accaccagct gagagccaaa agcaggagga 360
 gcccaagaac caaccagcct gcgagcc 387

<210> 15385

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E8

<400> 15385

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 gctgcatcca acctactttc agaattgttg ctctcgtgta cgtctacgca accaggcgac 120
 tcaagtcccg acgaatatga aggacatggc gtcgacctcc tgaaatctga agcgtcaatg 180
 gagtatctat gcaacttacc accacatagg tatgaagctg ttttcgcgaa agaaattccg 240
 gagacgatca ctggcgatgc gtttttagag aagtatggag accacaacga tgcggtaaca 300
 gaagttgacc caaagcggtc ttactgtgtc aaggctccta ctagacatcc catatacgag 360
 aacttccgag tcgaggcctt caaagcgttg ctaacagctg ccaaaacaga cgagcagctc 420
 tcagcccttg gagagctgat gtt 443

<210> 15386

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-F2

<400> 15386

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 gaggcgcggc tgtcggcgcc gtgctacgcc acgtacgaca acggcgaaact ggcctacttc 120
 gacaacgtgg tgcgcggcaa cctcagcaag ggcgcgctcc gaggcgtgga gggcctctcc 180

caggaggagc tcttcgtctg gctccccgtc aagggcatcc tegtccagga ccaggaaccc 240
 ggggtcatcc tgttcgacat cgggttagcc cacaagagcc tgtcgaggtc gctcttcgag 300
 gaccgcgcgg actgcaagcc gtccggcctcc ggcgggatga gcgccgncn cgccgccagg 360
 agggagggca cgcaaggtgt tactggacta cggttgangc gagagatggc agcagcaggc 420
 agcgaccaga gtcaggagc 439

<210> 15387
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-F3
 <400> 15387

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 tttagacccc ggtaaactta gcccggcct tctatagccc cccttaacggt cgccgaacga 180
 taagcacctt tccggccggg tccgtcgccg gatgagctcc gcggcctatt gcctccgacg 240
 gccaggcctc gcgagcaaca ggagacgttg gtggatcacg agagggggtcg ctttaaactgt 300
 ggaccggttc ctctagagg cgctcgacaa cccttgccaa cggtcatgg ttctacggat 360
 ggaactggat atacgaaact ttatgcagaa ccctcagctg caggagtctg aattccagaa 420
 ctttccgact tcttacctac gctgtgctgc tcacgtgtt gc 462

<210> 15388
 <211> 468
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-F4
 <400> 15388

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 ccttcccggg ggcggcctcc ctctcccaa ccgtccgtac cccacttct tcccagccg 180
 acctctggcc gccgccaccc ccgagccggc gagctcgggc tccctccggc cgctccatc 240

ccttccccga ccggcgccctt cctgctnccc ttgccggcga gcgcgggctc aagcgcgccc 300
cgactagccg gctgctactg ctgcagcccg gatgggggag acgacgcgac gctcgctcgt 360
ggactggcgc ccatgggacg aagctgcgga ctccctcgat cggccaccgt cgtgccctct 420
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<210> 15389

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F5

<400> 15389

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ctcttgaaat gtgcagaaga ggtcctactg aatggcgatg ttgcaagtac atctgggaaa 120
tccattgcaa gcttacaggt ggaagcatct gatttggcaa acttccttac catggatcgg 180
aatggggggt accgaggttc acaaactctt ctaagatctg tattatcaga gaaacaagag 240
ctgtgcttct ctgttgtctc attgctctgg cagaagctca tagcttcttc tgaaatgcag 300
atgtctgcag aaagtacatc agctcaccaa ggatggaaga aggttggttga tgcacttagc 360
gatgtcgttt cagcctctcc aaccatggca tcagctgcta tc 402

<210> 15390

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F7

<400> 15390

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tctatcgtcg gtcggggacg atgaggccgg ccgcgctctt cctcgccgcg gtgctggcca 120
gcgtcgctct cctcctcgcc gccggccgcg ccgcgggcga cttctcggcc ctggcgccgt 180
gcgatgtgac gcagctgacc ccctgcgcga gcgcgttcgc ggggaaggcg tcgcccacgg 240
ccgcctgctg cgccaagctc ctgtcccacg ggcccggctg cctgtgccgg tacaaggacg 300
acgccagcct gaagcgctc gtcgacgcca ggcacaagcg cagggtgttc accgcgtgca 360

aggtgcccgt cccgagttgc tagccgtact cctagtcctc caagctcacc cgtcgggccgt 420
 cggcgcaagc agccacg 437

<210> 15391
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F8

<400> 15391

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 accttgcttt tcagtcattg gagtatattt tggttcttgt gttttactgc atatctgatt 120
 tttgttccca atgcatcata catatctagg ttgcagctgt tttgtgtgga tataaaatga 180
 gacctgaatg gtttgaataa ataaaacaaa gttaggagtc cccgctgatt gctttgcaat 240
 ttataatgaa ggaaatttat ctatgcttaa tgcattcaag ttccaacagg atttggattt 300
 tttttatttt actttgctgt gtttctattt catgaaggca gatctggtgc agcggtgaaa 360
 gttgtctcgc tgagtcacca tgctctctctg catttgcaaa ggaaagggtt gtctctgggt 420
 attccttccc a 431

<210> 15392
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-F9

<400> 15392

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 ggcaggggga ggagatggcg gcggcgccag cggcgggagg gcagggaggc gggggtatgg 120
 acgccgcgct cctcgacgac atcatccgcc gcctgctcga ggtgcggacc gcgcgccccg 180
 ggaagcaggt gcagctctcc gagtcggaga tccgccagct ctgcaccgtc tcccgcgaga 240
 tcttcctcaa ccaaccaaac cttctcgagc tcgaggcgcc catcaagatc tgcggtgaca 300
 tccatggtca atacagtgat cttctaaggc tttttgaata tggaggcttt cctcctgaag 360

ccaattatct attcttaggt gattatgttg atcgaggcan acaaagtttg gagactatat 420
gccttct 427

<210> 15393
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E11

<400> 15393

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ttcgccgctc cgatccccgcc ggcgcccggg gcacacaggc gccgcgtcgc cagcacgcgt 120
cagagctgga cttgcgactt tcggctagcc gggtcggctc ggagcgctgc ggcggagcgt 180
ctttcgactc tgggccagtc gtgcaagcac gggaaacgcg gagggcccga gagcgaactg 240
aggggacaac gttcgcgata ggcggacttc tcgggctgac gcggaggact gcgatgactg 300
tcgtcggaac gaagggagcg tagaacgctc cactctc 337

<210> 15394
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C2

<400> 15394

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acaagccgcc gtacgccgcc ttggacgaca ccatgaccac catcactaat aatatggtga 120
aggagcaact ctcatactac accttcagct tcatctatct tccatagcat aactaccgtg 180
tatggaatgc catgccctac gtcatatata actataacttg ctagaagctg ttcaccatcg 240
ttacca 246

<210> 15395
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-018-Q1-K1-C4

<400> 15395

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tattttccggg gcaacggcca atttggtctc cggttgccgt tcttttcgcg cgccgcccgg 120
atcccccttac tcccaaagcc cttcaactat ccactcccgc gtccccggag aagcggcgag 180
atgtacggca tcctgacctc gccctgccct cgagccccgc ttctgogcgc tctcccagagc 240
ccattcgccc gcgcattccc cagaacacta gccttccccg cgaggcccct ancacgcggt 300
ctccgcctga ccccttcgca cgccgacgcg gaggcacgcg cggcagccac ggcgttaggc 360
gggctttctgg cgtcgccgct ctcgactctg gaggcgcgcc tgcggggcct caagctcgcg 420
cccccttcgcg ccctcgtggc ggcggcgatg t 451

<210> 15396

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C5

<400> 15396

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tgctgtttgc caggtataca ggcataggag aatgttttgt tagtgaaagc aatagattta 120
tcttcctgtg ttaataagaa gctgtccagt gtcattgtat cctcttaggt tgtaatacac 180
caaaatatac ccttctcttt tgcttaaaat ctgagcggag ggagtcgccg tcttgctatt 240
ttctagtatt agtaggctgt tttttttttg tgctgctaac ttcttttcta atattttctg 300
cagtgatgat ccattgtat cattatcagc acaagcacc acacaattcc gttttcctgg 360
gtctgttcac gttgtgcttg agcttcagca tcggcgtggc ttgtgctaac acccaaggga 420
aaatcgttct gg 432

<210> 15397

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C6

<400> 15397

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 tgctgtttgc caggtatata ggcataaggag aatgttttgt tagtgaaagc aatagattta 120
 tcttctctgtg ttaataagaa gctgtccagt gtcattgtat cctcttaggt tgtaatacac 180
 caaaatatac ctttctcttt tgcttaaaat ctgagcggag ggagtcccg tcttgctatt 240
 ttctagtatt agtaggctgt tttttttttg tgcgctaac ttcttttcta atattttctg 300
 cagtgatgat ccattgtat cattatcagc acaagcacc acacaattcc gttttcctgg 360
 gtctgttcac gtt 373

<210> 15398
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-C7
 <400> 15398

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 ggcggacaga agacggtggt cgcactaaca ctgattttcg ctatccaacg atgtgaccca 120
 gctccatttt atctgttcga cgagatcgat gctgctctgg atccacaata ccgaacagca 180
 gttggaaata tgatccgccg tctagctgac atggctgaca ctcagttcat tgcgaccaca 240
 ttccggccag agattgctaa agtggctgat aagatatatg ccgtgagaca caagaatagg 300
 gtgagcaaca tcgacgtggt gtccaaggag gaggccctgg acttcacga gcgtgatcag 360
 acgtacaatg ctagctgagg ctgctgctgc tgtgtattga ttgatctgca ngcagatgct 420
 aacgcag 427

<210> 15399
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-C9
 <400> 15399

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ctgacgcat ggcctcgtcg ggcacgagag aggttctcat gcttgaggcg cctccgccgt 120
 ccgaccccg cgcggggccc tggcgcgcg tgccggacgc ggaggccatt gacgcgctgc 180
 cctacatcga cggcgactac ggcgatgcgg cggatgaagcg ggaggtcgat cgcctcgtcg 240
 aggaggagat ggcgcgaggg aagcgcaagc ctgcagactt cctccgggac ctgccccctg 300
 ttcccaccgc cggattcgag aatcattcta tgcttgctaa agaatatgaa cgtgttaggg 360
 ctggcaaacc tccttttatg ctatgatgtg ctgcgtatgg tttggagcca cctncaatga 420
 acaa 424

<210> 15400
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D1

<400> 15400

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 cccgccgagg ctccgaagcc gaagcctgcc gccgccaagc cgaaggcggc caccgctggg 180
 gcctcccacc cgccttactt cgagatgatc aaggaggcta tcacggcgct aaaggagagg 240
 accggctcca gctcgcaagc gatcgccaag tatgtggggg acaagcacgg cgcgtctctg 300
 ccggccaact tcaagaagat gctttccatc cagctccgtg ggtccgcagc caagggcaag 360
 ctctgaagg tcaaggcttc gtacaagctc tcggacgcc 399

<210> 15401
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D2

<400> 15401

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 cccgccgagg ctccgaagcc gaagcctgcc gccgccaagc cgaaggcggc caccgctggg 180

gcctcccacc cgccttactt cgagatgata aaggaggcta tcacggcgct aaaggagagg 240
accgggtcca gctcgcaagc tatcgccacg tatgtggggg acaagcacgg cacgtgtctg 300
acggccaact tcaagaagat gctgtccatc cagctccggg ggtccgcagc caaggtcaag 360
cacgtgaagg tcaaggcttc gtacaagctc tcggacg 397

<210> 15402

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D4

<400> 15402

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gcgaagacat cgacctctc tgaccggccg ctgtggttcc ccggcgccgt ggcgcccagc 120
tacctggacg gctcgctggt cggcgactac gggttcgacc cgttcggtct cgggaagccc 180
gtggagtacc tgcagttcga gttggactcg ctggaccaga acctggccaa gaatgaggcc 240
ggcggcatca tcggcaccgc gttcgagtcc tccgaagtca agtccacccc gttgcagccc 300
tacagcgagg tgttcggcct ccagcggttc cgc 333

<210> 15403

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D5

<400> 15403

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gaagtaccgc gtcgacatcg ctttcttcgg ccacgtacac aactacgagc ggacctgccc 120
catgtaccag agccagtgca tgaccagcga gaagaccac tactccggga ccatgaacgg 180
caccatcttc gtcgtcgccg gcggcggcgg ctgccacctg tccagctaca ccacggccat 240
ccccaagtgg agcatctacc gcgactacga cttcggttc gtcaagctca cggcgttcaa 300
ccactcgtcg ctgctgttcg agtacaagaa gagcagcgac agcaaggctct acgactcctt 360
caccatcgac agggactacc gcgacgtgct cagatgcgtg cagcacagct gcttccccac 420

cacgctagcc acctagttaa ttaa

444

<210> 15404

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D8

<400> 15404

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aatcgtcggt ccggaccca aggcgtgaa gatgcgccc cagcctttc attttcacca 180
ttcggggtcg accacgctct cggcgtcggc tctgctcctg ccgcggggcg ctttagcgga 240
gccgccgcta cttctcgacc atatctgctc ggcccacggg cagcgggcag gagacgtcgc 300
gctcacggct gcttccctcg tcgagccgtt cctggtcgcg gagcagcgca ataactccgg 360
cgaggagctt cagccgaggt tggttccgga gacgcgtctt gatgcgtttg gtgagtatga 420
gtcggggaat gctcaagatg 440

<210> 15405

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E1

<400> 15405

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gccgatgtgg agctgctgtg gcctgcttag ctccaagagt aacaccagct ggaacttcta 120
ctagtgtggt gacatcgaaa gtgacccct ttccacccat tgtgagtggc caagttggca 180
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tttgtgtctt atttatcagg gaggagattc cttcatttga tatatatttc ttttcatagt 360
agacgtctgg aagtccatta ctatatactt aatgacttag acgaggaaat gctcgagagg 420
gataatatct ttcaagagcg atatctg 447

<210> 15406
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C12

<400> 15406

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 gctgcagcca tggcgacctc cgcggcgctc tccaccgccg ccaatcccac ccagctctac 120
 cgggtcccgcg ctctcgctggg caagccgggtg aaggggcttg gcctgagcat gggccgcgag 180
 cgcgcccagc ggagcattgt gtgccaggcg gcgagcagca tctccgccga ccgcgtcccc 240
 gacatggaga agcgggaagct gatgaacctc ctctcctcgc gcgccatctc gttgcccacc 300
 gtcggcatgg tcgtccccta cggcgccctc ttcgtccctg ccggctccgg gaacgcgcggc 360
 ggcggggacct acgcgaagga caagctgggc aacgacatca cggt 404

<210> 15407
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A7

<400> 15407

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 gagctacgcg aggatggacg ccgaggccga cgcttctagt gatactgcct gaccagtgcg 180
 catctgccac tacgagatgc cagatgcaaa gctcaaacac acggggtcca ctgctgtcga 240
 cgccgttgca gtgcctagcc gtctggtcgg ctgcaaatgc ggcgactgcg ctgcgg 296

<210> 15408
 <211> 364
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-A8

<400> 15408

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gagctcgagc tcctagtccc ccggggccga ggcgcggcg ccatggacca gctccggccc 180

gagccggccg cgggcgcgca cgagatcgag aagacggcg cgccggacgt ggagtcggag 240

cccgcggcgg cgggtgccga gccggagcgc gtgccgncgt ggcgcgagca ggtcaccgcg 300

cgcgggatgg tggcggcgct gctcatcggc ttcgtctaca cggtgatcgt catgaagctg 360

agcc 364

<210> 15409

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A9

<400> 15409

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tggaggggcg atggcggcgg ctgatgtgga gtaccgttgc ttcgtcggcg gacttgccctg 120

ggccaccagc aacgagtcgc tggagaatgc cttcgcctcc tacggcgaga tcctcgactc 180

caaggtcatc accgaccggg agacggggag gtcccgcggc ttcggcttcg ttaccttctc 240

ctccgagaac tccatgctcg acgctatcga gaacatgaac ggcaaggagc tcgacggccg 300

taacatcacc gttaaccagg ccagtcctcg tggcggcggc ggcggcggcg gcggcggtgg 360

ctacggcggc ggtcgcggcg gcggcggcta tggcggcggc cgccgtgacg gc 412

<210> 15410

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-B1

<400> 15410

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ggaagttact aaggtgctca aaaccaaag gcaggtggtg accgggaccc tgcattgacct 120

gatactggag gcagctgatg ctggaaaaaa gagtgtgtac agagcanagg tttgggtgaa 180
gccgtgggaa gatttcaagt ctgtcgtcga gtttcgcctt gttggagact ctgaatctga 240
acccgagcct tctgttgctt ctgatgttag ctctgggcaa gcaattgcc aactctctct 300
tgaagcagat attgtacaag aagaggctcg cctgcacacc attgagaatg atgggctttc 360
ccgcgatttc acatcatcat cttaggattc caggcaagga tggaaagcgt aaaggtttaa 420
atg 423

<210> 15411

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B10

<400> 15411

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ctagactgat ttcgatgtag agccaatatc accaacgtcc ttgactgtct catagaggag 180
ttctgcatcg agaaagtgga gttcgatgac atgaacgata ataacgtggg gattgtgctt 240
ggaaagttag acgtctagaa tctct 265

<210> 15412

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B11

<400> 15412

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cgacgcggct ctctcttggc gcgctcctcc tctcgtccc cgccgcgctc ctctctctgc 120
tccgcgcgcg gggcaggcgc cgtctcccc cgggcccgcg gtccttgccg ctgctcggca 180
gcgtggtgtg gctcaccaac tcgcccgcg agatcgagcc cctgctgcgg cgctcttctg 240
agcgttacgg ccccgctcgtg gcgctccgcg tcggggcgcg cttgtccgtc ttcgtcgcgg 300
accgccgcat cgcgcacgag gcgctcgttg accgcggcgc gacgctggcg gaccgcccgg 360

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400

<210> 15413

<211> 265

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-B12

<400> 15413

cacagccacc gtcgccatgg ccgtctcagc cgtcctctcg tctccgtgaa agccctggag 60

ggcgacatgg tcacggacgc ccnccgcatc gccttaccgt ccgtcttcgg ggcaccgtat 120

ccgccggacg tgggtccgtt caccacaaag ctgctgtcct gcaacaagcg ccaagcctac 180

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ctgggtccgg attccccggg tcccc 265

<210> 15414

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-B2

<400> 15414

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tcttctgccg cgccaacgag aactactgcc tggccgtccg cgacggcgcc gtcgtgctgg 180

ccccggtcaa cccaaggac gaccaccagc actggtacaa ggacatggcg ttcagcacc 240

gggtcaagga cgaggaaggc atgccggcgt tcgcgctcgt caacaaggcc acggggctcg 300

ccatcaagca ctccctcggc cagtcccacc cggtaagct cgcgcctttc aaccgggacc 360

aggaggacgc gtcggtgctg tggacggaga gcaaggacgt gggcaagggc ttncgctgca 420

tccgcatggc caacaacacc c 441

<210> 15415

<211> 397

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-B3

 <400> 15415

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 tatctactct tggccggaga gcccatctgg tcgacgggtcc gctatgtctc tgcgncaagc 180
 gccgcgcctg agccgacatg ggctcaagct cattcttcaa ctgacgaaat cataacgtca 240
 ctgatgctga cgttcagctt tacatccgat gaacattctt ctagttccag aacgctatat 300
 agatggaaaa gggatttgct cacagtaagt ggccaagctc ttgccgcgaa tcacacagaa 360
 cacatcgacc cagagattac aatggctatt gcacgag 397

<210> 15416
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-B6

 <400> 15416

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 gatgtaacag acctacagta gggatgctag gcccaaggagt taaaatatat ccacatgtta 180
 gaatatttcg taactgtagt aacttcaaca ttatatagat taatcatgaa ctttttagttg 240
 tattaaacaa ataagctctg tatgttcatt gttgtagaac taagtttatt gtgaatttgt 300
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 gatatgtttt tagtctggat ctgcccttgg tcaagattca aatat 405

<210> 15417
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-B7

<400> 15417

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agagagtaag agaagtagtt cattcccttg cccaacacaa gaaaacaagc tctcctcatc 120

accctaatcc aagcaactgc ttgtgtgttg ggaaattctt gtgacccctg ttatattatt 180

atccgtgtag ctactagctt cattcccccc tttgtacca tcaaattggct ggcattgtctc 240

tgcaacaccc ctgggcgttt gctttcggtc tactaggtaa cgcatctca ttcattgacct 300

tcttggtccc gataccgacg ttctaccgca tctacaagag caagtcgacg gaaggcttcc 360

agtcggttcc ctacgtggtt gcgctgttca gcgccatgct gtggatcttc tacgcactga 420

tcaagtccaa cgag 434

<210> 15418

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B8

<400> 15418

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tcccaagtcc ccaccacccc caaccctgc tctccactgc ggccgaggct tcgcttcggc 120

tccgctcggc tcgagcagaa gaaaatgcaa cgggcagtgc agaccgtcag gtcacacggc 180

aatgttctta aatatgctgt tctacaacac atcagcgctc ccaagccagc aatgcttctt 240

gctgcctttt ctgcttctat gtcagtttca tctgctcgcc tagaggatcg tggatttgaa 300

actgccactg tagcagatgt cttgaagtct aaagggaaga gtgctgatgg atcttggtctc 360

tggtgcacca cagacgatag cgtctatgac gctgtcaaat ctatgactca gcacaacgtg 420

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B9

<400> 15419

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 cgagcaccca tcatttctgt acaaattggct gatggtgagg acatccagcc tcttgtctgc 180
 gacaatggca ctggaatggt caaggctggt ttagctggct atgatgcacc aagggcgggt 240
 ttccctaaca ttgttgccg ttctcgccac actggtgtca tggttaaggat gggacagaag 300
 gacgcataatg ttggcgatga ggcacagtcc aagaaaagta ttcttacgct caagtacccg 360
 attgagcacg gtattgtgag caactgggat gacat 395

<210> 15420
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-C1
 <400> 15420

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 cgacaccatg accaccacca cgaagaagat ggtggaggag cagctctcag acgacgccgg 180
 cggcggcggc gagctgccag agcagaacta ccgtggatgg aaggccatgc cctacgtcat 240
 agggaaacgag acgtgcgaga agctgggcac catcggcacc acggccaacc tgctggtgta 300
 cctcaccacc gtgtacggca tgtcggggcg cagcgccgnc accctgctca gcctctggtc 360
 gggcacccgtc aacctggcg cgctcctggg cgccttctc agcgacacct acatgggccg 420
 ctacgc 426

<210> 15421
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-C11
 <400> 15421

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ttattttctcc accccaatat ccaaacataa gataaaaatc tatccaacac tcattttccca 180
 cgccactccc ccaactccctc tccacctgc ttccgttttc ggccggcgat ggcgacgacc 240
 gccgcccgcac ccaagtcgct ccggccgctg tcaccgtccc cacctcgcat cgcgagtttg 300
 ccccgctcggg ggtgttgggg aatcccgggt cagtcctccg ggcggagcgc attccatgct 360
 gaacggcgga ggccggagcac tttattatgc gctgctgata aagctcctga agaateccctc 420
 aagaa 425

<210> 15422

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H3

<400> 15422

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 cacatgacat gaacgccttc cataaactgg tcattgacga tcaacagctg ctacgtacat 180
 caagttcaac acctagatgg ctaagctggc ctttaacctg tgaacatctg ctgtttacga 240
 tacgagatct acgttctttg tagcaaata gaatgctagt ccattgacag aatgtgctgt 300
 atactgggtct accgcttcca gcataactac cattcggaac ccgccactct ttgagtatgc 360
 tgacagttcc atgacaaata cttgtgcgac aagctttgtc ttacactct 409

<210> 15423

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H4

<400> 15423

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 cctctccttg ggccggcgcg cgcacccggg ctactccgac gccgacgaga gcgcgtgcac 180
 ggtggacgcg ggccgggagc tgctgcggcg gctggaggag cgcgggcccc gcggggcgag 240

catcatcgac atcacgcacg cggtcgtgcc ggacctgccg gcgttcgcca cgggggagggt 300
cgcgggggccc atgctgcgcc tcaggagtc catggcggac gggtcgagtc acaacctgtc 360
ggagctgcgg atggagtgcc acaccggcac gcacg 395

<210> 15424
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-017-Q1-K1-H5
<400> 15424

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ccatggccct ctctccacg gccttcgccg gcaaggccgt gaacgtgccg tcgtcgtccg 120
ccttcggcga ggcccgctg acgatgcgca agacggcggg gaaggccaag ccggcggcgg 180
cgtcggggag cccgtggtac ggccccgacc gcgtgctgta cctgggcccc ctgtccggcg 240
agccgcccag ctacctgacg ggcgagtcc cgggcgacta cggtcgggac accgcggggc 300
tgtcggcgga cccggagacg ttccgcaaga accgggagct ggaggtgatc cactcccgt 360
gggccatgct gggcgcgctc ggctgcgtct tcccggagct gctcgcccgc aacggcgctca 420
agttcggcg 429

<210> 15425
<211> 372
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-017-Q1-K1-H6
<400> 15425

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cagtaaggct cttgtccatg gccatcccaa cccaggacgc gaacaaggcg gaggagatcc 120
aattggggta cacgcgtgca acgatgatcc atagatccaa taacgatatg caggcctctg 180
cgccccgat cgctcgtggc ggacaggacg gtgtgctaca cgtcggcaga ctgccatgtg 240
agcctccgag ctaacggatg ggcgagacac ggctatacta aggctggcac tcaggctgac 300
tgacgccgca gcgtgcaaca ttccgcagga actgagagtt agacgtcatc cattcctgct 360

ggtccatgct aa

372

<210> 15426

<211> 392

<212> DNA

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<400> 15426

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aaaaaaaaa aaaaaaaaaa aaaggggggg cggttttaag ggaccaagt taacttcccc 180
gggcttgcaa cgtaaaagct tttttaagg gaccccaaaa tttaaattaag gggccggggtt 240
ttaaaaacgt cggaacggga aaaacccggg ggttcccaaa ttaaatcgct ttgaaaaaaa 300
tccccctttg caaagtgggg ttaatagcaa aaaggcccgga acgaatggcc tttccaaaaa 360
tttgccaacc ctaaaggga aaggggaaccc cc 392

<210> 15427

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H9

<400> 15427

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tccaacacgc ctcgatctag atccactctt ccccccttctc ctcccggtcc tccccccgag 120
actattcata tagggcgggta ggcgtccgag gcctcgtttg ttctcggtt cttgtctcca 180
agggtgctac tccgtccgcg cttggtctgc tctcgtcctt ccggaggccg cggcgcaaca 240
tggcgaagat caagccgaag gccttgctcg cgcaaagcaa ggtgaagaag gtccccggcc 300
aaatcagcgt ggccacgac gtcacctaca tgatcctcgg cgtcctggtc gtgtcctccg 360
tttacgctgc ctacaggtac tgctgggcag tcacaggagc agcggatgca gtgggcgccc 420

<210> 15428

<211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-A1

 <400> 15428

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 ccggccgcca cgcggaccac accggcgctc ctctgtgtgg ccaccggccc gcgcggcgcc 120
 ggcgcggggc ccatctgcgc gtccatgtcc atgtcctcct ccaaccggcc ctacgacctg 180
 acgtccttcc ggttcagccc catcaaggag tccatcgtgt cccgcgagat gaccgcgtgc 240
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 gcggggctgt cctgcgcgta cgagctctcc aaggaccccg ccgtgagcat cgccatcgtg 360
 gagcagtcgg tgtcgccggg cggcgggcgcg tggctgggcg ggcagctgtt ctcggccatg 420
 gtggtgcgc 429

<210> 15429
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 15429

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 aaccagaacg tacgccggca acccatctcc ctgaaatggc cgctgtggag ccccggcagt 120
 tcggggtctt ggagccgggc tcctcgccag tgcgcgtggc cacgaacggc gccaaggcgt 180
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 tccctcccct cgtctccccg ccgcgcaggc tggacgacgc gtcggacgac gaggacgagg 300
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 tgcaggacgc gcgcgacgaa tgcaccngg acgcgtggat cgagcggaac ccgtgcctgg 420
 tgag 424

<210> 15430
 <211> 338
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A12

<400> 15430

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atcaaccagt gcaacgaaat aaaagctgcg aatcttgcta gcaaagaggg cggtgacctc 120

aacatagtga aggcggatgg tgaggaatct aaatcaaaga aataggaagc cagaaactga 180

aaacgagtgt gtgaaacgtg atgcgtggta aactgttaat gcgatgtatt ctgctgaaga 240

aaattcagtt ccgtatggct gggtagatga acatgtttag cgcaaagtga cggtgtaact 300

gcaaccgggg taatggcttg caagttttgt tctgtgcc 338

<210> 15431

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 15431

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actgcaaccg accaagggcc aatggcccga accgcggcgc cggccgcggg ctacggagag 120

gacggagtgt accgctcccc gcgcccggcc gtgcgcacgc agtccgacac aggcctctcc 180

ctcaacgacc tctcttcccg ccgcgccgac gtgtgcccct ccgctctcgc gctggtcgac 240

tccgncaaccg gccaatccct caccttcgcc gcctttcgcct ccgccgtcct caccacggcc 300

gtcgccctct cctcgcgcgc gggcgtccgg cgcggcgacg tcgtcctctt cttegcctccc 360

aactgcttcc tctaccccgct ctgcttcttc gccgtcaccg ncctcggcgc cgtcgcctacc 420

ac 422

<210> 15432

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-A5

<400> 15432

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cagcagtcgc ccagctccag cgccaagtgc aggtcctctt gctcctcca tgacaagtcc 180

gcgtcgccaa cgacgtcggc gcagatgcag agtcacagt cacagttgca gaggtggcg 240

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ttctacttcc tcgtcgctcc tccggtgatc atgaactgga tgaggctgan gtggtacaag 420

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<211> 435

<212> DNA

<213> Zea mays

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<400> 15433

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gttgtcaatg atgcaaact gcaagctaac tgcagacagg cactcgcaaa acaatcttac 120

acatgacatg aaggcaattc agaaacaggt tattgatgat caaaagcttt tacgtgataa 180

ggttcaaacac ctgagtggcg atgctggcct tgagcggatg aactctgttc tttccgatac 240

gagatcaaag ttctttgaag caaaggagaa tgggagtgca ttgacagcac ctgttgcaaa 300

tgtgtctacc cttttgagca tcaattcgtc tgggaaagca ccactttctg aggttcctga 360

aagttccagg acaaattgtt ttgggacaag ctctgtagtc cgttctttgt tcagtgttc 420

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<212> DNA

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<223> Clone ID: LIB3060-017-Q1-K1-F9

<400> 15434

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 c 421

<210> 15435
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-G10
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 t 421

<210> 15436
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-G11
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cagcttgagc tggaaggtgt ggactccttc atgaagagct ttgacagcct actcgtgagc 360
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ccgg 424

<210> 15437

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-017-Q1-K1-G12

<400> 15437

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gcggaaggtg tatacagcgc cttggagaag cttggcattg actgnngcga ggtcggaaaag 300
caacttgagc tggaaggtgt ggactccttc aagaagagct ttgacagcct actcgtgagc 360
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<210> 15438

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G3

<400> 15438

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gcactgaaca tgtccagatg ctggggagag ctcaagtatt tgatggacac aatagctggg 120
aattccaaaa actgcatctc gtcacagcct cgcagattgg atgcgtgatt cacacggctg 180

gtttggcatt gtttgaacac atgagaagga agggctgttc catacggttg gaagacgaca 240
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 ttgcatcttc cgtctttctt tgtgatgagc tccttttctc tatccttttt cttttctaga 360
 aaaaaaaaga gtgagacact atacgtgttt gttacctgca aggtttatgc tactttt 416

<210> 15439
 <211> 250
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-G4
 <400> 15439

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 tctttttttac gcttaaaaaat aaattgcac ttcctacttt ctttgtgtat gactcctctt 180
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<210> 15440
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-G6
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 gacaagccta cgtgtccacg acagcgaccc taccgtctgc tatccaggcc agttcgcttc 120
 ttggcccatc gttggcccg ggtccttct gcccttgcca ttcttcaggg tcgccctgac 180
 aggccctgcc gtcggctgta cgtggaacct gtgcatttgc ttctctgagc tctacggcta 240
 cttacattag atcttcttct tactcttctt ctttaataaaa aatatagatg ccggagtttt 300
 tgtgcaaaca caagtaatat tacctgcgat gccacaattg ctggtcattg cacatcatga 360
 aacatgtatt cacagttgaa aaagaaagt gttagaacga taggccta 408

<210> 15441
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-G7

 <400> 15441

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 ctccccctgc cttctagatc ccaacctggt gcatcatgtc cactttttcag gttctgcacg 180
 actggacgct gaggctagag cactgtcctg tttataaact aatatccaga acagcgccac 240
 agctggctac tgctatggtc atgcacgctg cactgtctgg ttcattgata atgtagagtt 300
 gatctgtcac ttcagtatga cgccaccttg atagcccgat gtcgaattac ctgactatat 360
 gtatcatcct tgtagtctgc aagaatcatg acgttattac taaagcactt a 411

<210> 15442
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-G9

 <400> 15442

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 gctagttcaa cactccattt gcaagctgct ttgataattt cattaccttc acgagcaaaa 180
 atcgcgccct tcgttacaag cttgtacaca ggcttctaaa gccacacgat tagctgctgc 240
 accaggtgca tttccccaag gatgtcctaa agttcctcca ccaaattgta atacggaatc 300
 atctccaaag atttcgggtca gagctggcat atgccaaaca tgaatacccc cataagccac 360
 cgggtataaca cctgtcatgg atactcagtc ctgagtga aa 402

<210> 15443
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-H1

<400> 15443

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gtttgtgttc ccccttactc cctgcgctt cctctcacc tctatcgctt aaaaacccta 120
gtccgtgccc agccactacc gtogactgcg cgtggctcgt ggccgcgtgc gtogacccaa 180
ctgatggcac gacctccctc accttcgtcg ctaacctgat ccatggaagg cgaaagatcc 240
cctgattacc cctctccttc caccttgctc ggctccacc tgctcgact ggccgctcta 300
ctgcaccgtc gtcaccgtca caaccacat gcgaggcg atccacgtcg tctaggctga 360
cgtcccgttg ctggagacta ggcgaggcc catcaactaa cagccaccg tctcgacc 420
gcatgaggtg ctcacgatgc ggg 443

<210> 15444

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H11

<400> 15444

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ggagggcatc gccagaacg cccgcccga gttccagaag accaagctca tgaccgcct 120
cacgtacacg ctggacgaga tcgagggcc gctcgaggtc ggctccgacg gcacgtcaa 180
gttcgaggag aaggacggca tcgactacgc cgccgtcacc gtgcagctcc cggggggcga 240
gcgcgtgccc ttctcttca ccgtcaagca gctcgtcgcc accggcaagc ccgagagctt 300
cggcggctcc ttctcgtgc ccagctaccg tggctcctcc ttctcgacc ccaatggccg 360
cggcggctcc accggctacg acaacgcgt cgcggtccc ggcaggggca gatgtgacga 420
gga 423

<210> 15445

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-F8

<400> 15445

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 cgatcatgacg gcgccaagc tcaagctcct agctcttctt actctgctgg tctcatcct 120
 cctcctctc ctctccgcg cccggcgggc cgctcttctg gagacgctcc tctccgcgc 180
 cccggtctc cccggcgacc tctcccgt cctgccctgg cccgtggcgc agccgctgct 240
 ccgcgcctc gcgctgcggg gcccgcgca cctgctcccg gctttcgctg gggccgcgcg 300
 cgcgccgggg tccgacgacg cctaccgggt cgccgagtgg aagggcgctt gcttctacga 360
 gaacagggcg tgggtggagt tccgcaacgg gaccggcggt gggctcggag gcggcgtagt 420
 ccatgtggag aca 433

<210> 15446
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-E4

 <400> 15446

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 acctcccccg gatagcccg aggaccgctc gccgcagctg ccccgccctc caccgggggg 120
 cccccccggc ggcgagccgg aagcggagtc gctctccgcc gccgccgcgc ccgcctccgc 180
 tgggttcgct cccggcccaa aggtatcggg accaccgcag cggcggaggg cggggcgggg 240
 gcagccccag cccgcgcgcg taccggggca gccgcgcga ctcgccgtcc aggagatccc 300
 cgtcgccgcc attcaagcgg tcgcggaggg acgacgggta cgaccgccgc gggggccgcg 360
 ggagcccgcc gcgttacggg tacgatgata ggaggcgagg ttatgaccat gagcgangtg 420
 gcggcagaag tgggtatga 439

<210> 15447
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-E5

 <400> 15447

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 cctcgccgac ggcaactccg atcgggtcgg gcatgtcca aggccagggt ctacgccgac 120
 gtcaacgtgc tgcgccccaa ggagtactgg gattactagg cgctcaccgc tcaatgggga 180
 gagcaggacg actatgaagt tgtcaggaag gtcgggagag gaaaatacag tgaagtattt 240
 gacgggtatta atgttaacaa taatgagaaa tgcattcatta agatcctcaa gcctgtgaat 300
 aaaaagacga tcagccgaga aattagaatt gttcagaatc tttgtggagg ccataacatt 360
 gtgaagctgc tcgatatcga cagagatcag cattcgaaaa cgcccagcta gatcttcgaa 420
 tatgttgaca acac 434

<210> 15448
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-E6
 <400> 15448

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 catcggtttg gtacaacctc caggtgtcgc acccgaccaa ggaggcgccc gtcattcgact 120
 acaagctcgc gttgctcttc cagcccatgc ttatgctcgg cataaccatc ggcgtagagc 180
 tcagcgtcat cttcccatc tggctaata ctgtctcat tataatctc ttcgtaggca 240
 cctcgtcgag atccttctac aagggaattc tgatgtggag ggaggagacc aggattctga 300
 cggagacacg cgggcgagaa gagcaatcca agtctacctg cgctgcaagt gatgtggtca 360
 ttgatcccag ttatggggag cccctcctga ctcaacctca gcccaagaag tctgcatggg 420
 agactttcat gttcaatc 438

<210> 15449
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-E7
 <400> 15449

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cgtgggggga ggagcccggtg ggcggggcgcc ggcctaagac caagatcgtc tgcacgctcg 120
 gcccggcgctc gcgatccgtc gagatgatct cgcgcctgct ggcgcgcggg atgtgcgtcg 180
 cgcgcttcaa cttctcccat ggctcccacg agtaccacca ggagacgctc gacaacctgc 240
 acgcccggcat ggagctcacc gggatcctct gcgcggttat gctcgacacc aaggggtccag 300
 agattagaac tggatttttg aaagatggga agcctattca attgataaaa ggccaagaaa 360
 tcacaatttc tacagactat agcattcagg gtgatgagaa aatgatatca atgagctaca 420
 agaagcttgc tg 432

<210> 15450
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-E8
 <400> 15450

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 tcgatgacca cctgctgtgc tacatctaag gccagcacct aatctcctgc gccatagtct 120
 gccactactg ctgtgtgtgg gcacagtccg agaacttccg cgagctatag cctgacgagg 180
 ttgctgggat gataaaggac tttgatgaac ctggaactgt tgcaccaact ggtctttgtg 240
 ttggaggtag gaagtacatg gtgatccaag gtgaactctg gagttgtcat ccgaggaaaag 300
 aacggcactg gaggcattac tatcaagaaa actggcatgt ccttgattat cggtatctat 360
 gatgagccaa tgacttcagg gcaatgcact atgccgggtg agaggctcgg cgattacctg 420
 atcgaaca 428

<210> 15451
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-F11
 <400> 15451

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 agcgtcggca ccaatggctt actaccagga ggtggactac tgctcggagg aggtgaggtc 120

ggtggccccg gccggcttcg gccgccacgg cggcggcgtc cagcagcacg tcgtcaagga 180
 gaagttcgag gaggtcgaca cggtcgcacg cgcggcgcc aaccaccacc accaccatgg 240
 tcaccacggc ggccacggct tcgtggtgcg cgagaccagg gtcgaggagg acatcaacac 300
 ctgcaccggc gaggtccacg agcgcacgga gagcttcctc gccagggcta actgagcagc 360
 ccggggcgcc ggcatccacg ccggttcgtg cctgcctgcg tgccttatgt atgtctgtga 420
 ttgt 424

<210> 15452
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-F2

<400> 15452
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 gggcgtgcac tccttcgcc tcggcctcaa ccgcttcgcc gacctgacca acgacgagta 180
 ccgcgccacc tacctaggcg ccaggaccag gccgcagagg gagaggaagc tcggcgccag 240
 gtaccacgcc gtcgacaacg aggacctgcc ggagtcgctc gactggaggg ccaagggcg 300
 cgtcgccgag gtcaaggacc agggcagctg cgggagctgt tgggctttct caacaatagc 360
 agctgtggaa ggcatcaacc agattgttac aggcg 395

<210> 15453
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-F5

<400> 15453
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 catcgtcgaa tcctcgcccc ttctcccgct ggctgttgct tttgcttcga attcccgatt 120
 tgcttgccgg aaccctagcg acgccgtggt gacgcgacgc cgacgcgtat ggagatctcc 180
 ttcgaggcgt gggagggcgt gcagcggcat ggtcaggacc tcgcggaccg cctcgcgcag 240

ggttttcacgg gcctgtctcca ggtgcccgcg cagttcccgt ggccgcccgc gccgcacaag 300
 cggatgccct tcgacatcga cctccccgtc gtccecttcg gcgcggcgcg cccctcggc 360
 gtcccgggtga aggacttccc ctctctcgcc ggggcccgtct cctcgggtcat cgacatcggc 420
 ggcaggct 428

<210> 15454
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-F6
 <400> 15454

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 atgatttcac agcttgacag caggaaaagct catctgagtg ctctgcaaca ggaaagggtt 180
 gagaaagtaa accaagggtcc ggaagatata tctgcaaata ttggggccagt ggaaaaggaa 240
 catgttcatg gggatctgac tttgcaatct gctagtgcg tactctctat tagctgcaat 300
 gggttctaata aaggaactaa atctgaaacc aatcttcaac catggactgc tacagatgat 360
 aggatggctt ttggagagca gaatgcggaa aagtctcact tagaactcat tggta 415

<210> 15455
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-F7
 <400> 15455

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 acgacctgga tctgacgcgc ctccccctgc cgtcgcgcgc ctccgcctcg taccttctcg 180
 cggcgaccgc cgtgctcgga ctctcggcg gccttctact ctacatgctt gcccggaagc 240
 ggggggtcga cgccggcgag gtccaggact tgcacaacaa ggccccccgc gccgtcgcca 300
 ccgtcccagt ccaggactag gactagcacc aggaggaggc tgcggaaatg gccggcaggg 360

cgccccgagat cgatgaggac ctncacagggc gacagctcgc cgtctactga cgcgagacta 420
tgaagcgctt t 431

<210> 15456
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-017-Q1-K1-E2

<400> 15456

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caaaagcgtg ccgggagcta ccgcggggcg gctctgcgcc ctccgagacg gggatgttgt 120
ggagctcggc gccgtcacgg ggaaggggtt cccctcgcac aggataaatc cgcccgacgt 180
cgcgagacc gtgctcatct tcgcggcggg gacggggatc agtgcgattc gatcacttat 240
tgagtctcgtt ttcgctgcc aagaaagagc tgatgtgagg ctttattatg gtgatacaag 300
tctgaaatct atgtcatacc aggaaaggct tagtaactgg gagtcaactg gaattaaaat 360
aataccagtc ttatcacaac cagatgacag ctggaaagggt gaacgaggat atgttcagga 420
tgctntcttc agaaacaag 439

<210> 15457
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C9

<400> 15457

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tgggcacccg cctggcggac ccggcgccac agaacgggcg catcgtggcc cggttcgggt 120
tcgggttggg cggcaaggcg aagcctgctc cgaagaagggt ggcgaagaca tcgacctcct 180
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tcggcgacta cgggttcgac ccgttcggtc tcgggaagcc cgtggagtac ctgcagttcg 300
agttggactc gctggaccag aacctggcca agaattgaggc cggcggcacac atcggcaccc 360

ggttcgagtc ctccgaagtc aagtccaccc cgttgcagcc ctacagcgag gtggt 415

<210> 15458

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D1

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cggccgtgcc ttctccacc accagccgcg gcacaccgcg ggaaccgtcg ctcgagctcg 120

cgctgaacc ccccaaactc tgccaaatct cgccaaatcc agccggtcgg accccgcaac 180

acatcgccaa aaccaaccgg gccggccgac acaagccgca gcccgtagcg atggacctgg 240

cgtagagcga ctttgcggcg ctgggcgcgg cggagctggc ccgcgtctcg gcgtcgatcc 300

cgcgcgcggc tccccgcacc ttcgcgct 328

<210> 15459

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D10

<400> 15459

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ccaccctgat gcagccggcc aagatcggcg gccgggcgcc ctttgctcgc ctgccgtccc 120

gcccgtagtc gcaactcgcc tgcaggcggt tcggcgtagc ctccggcgcc gcctggatca 180

cgtgctgcct gcatgacgtc gccagcaggt gcgtcgacgc cgcgaagctc gccggcttcg 240

cgctcgccac ctgggcgctc ctggtgtcgt gcgccagcgc ggaaggcacg cgcaagaggg 300

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<210> 15460

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D11

<400> 15460

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gtggaatcgg aggcgatgcg ggctagccgg ccggcggtgc accctgtgga gcggccccctc 180

cgccgcccgc cgcgggcgcg gaggggcccgg agggccaggt ggagggtgcc gcgcacccgc 240

gcgggggtgcg gatgaaggat ccgcctgggg caccaggac acctgcgggg cttggtctac 300

gccttgcgca ggccttcttc gcagccgctg cgctcgccgt catggcgtcc accaacgact 360

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g 421

<210> 15461

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D12

<400> 15461

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gccggcgtga actccagcgt agtagggctc aagcccgcg cgtcagtgcc gtaggccgcc 120

gccgactcat cggcgggcgaa gcgtatgcag ctggccgcgc ccgatggcca gcgcgccgct 180

ctgctcggcc tggcgggcgt cttcgccgtc acggccacca ccgggtcggc caaggccacg 240

atcttcgatg agtacctcga gaagagcaag gccacaagg agctgaacga caagaagagg 300

ctggccacca gtggagccaa ctttgcgcg gcctacaccg tggagttcgg cagctgccag 360

ttcccctaca acttcactgg gtgccaggac ctgcaccaagc agatgaaagt ccccttcac 420

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<210> 15462

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-017-Q1-K1-D5

<400> 15462

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 tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttttttatt 180
 taatgagttg atattaatta aatatctttt ttttttagatt tttgcaaagg tttcatttac 240
 gcctaatacca tatcgagtag accctgtcgt tgtgagaatt ctttaattcat gagttgtagg 300
 gagggactta tgtcaccaca aacagaaact aaagcaagtg ttggatttaa agctgggtgtt 360
 aaggattata aattgactta ctacaccccg gagtacgaaa ccaaagatac tgatatctng 420
 gcagcattcc gag 433

<210> 15463
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-D7
 <400> 15463

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 tgtacacatt atatatgaat gaaacatatt cattaactta agcatactcc tttattttatt 180
 taatgagctg atattaatta aatatctttc ttttttagatt cttgcaaagg tttcatttac 240
 tcctaatacca tatctagtag accctgtcgt tgtgagaatt ctttaattcat gacttgtaag 300
 gagggactta tgtcaccaca aacagaaact aaatgaagtt gtctggattt aaagctagtg 360
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<210> 15464
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-D8
 <400> 15464

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tctggggtccc ctctccaga tgctacttct cgattgcctg ctacctgcac cacagataca 180
 agtcggccaa gtctagcacg tacaaggcgg acggcgagac ctgcaagatc acctacggct 240
 ccggctcgat cgccgggttc ttcagcgacg acgacgtgct ggtcggggac ctgaccgtca 300
 aaaaccagaa gttcatcgag acaacgcgcg aaagcagcgt aacgttcata atcggcaagt 360
 tcgacggcat cctcgggtctc ggataccccc agatctccgt cggcaaggct cctccgatct 420
 ggcagagcat gc 432

<210> 15465
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D9

<400> 15465
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 cacgggcgcc aagaacctct acatcatctc cgtcaagggc atcaagggcc gcctcaaccg 180
 cctcccgtcc gcctgtgtcg gcgacatggt catggccacc gtaaagaagg gaaagcccga 240
 cctcaggaag aaagtgatgc ccgccgtcat cgtccgccag cgcaagccgt ggcgtcgcaa 300
 ggacggtgtc tacatgtact tcgaagataa tgctggagtg attgtgaatc ccaaggggtga 360
 gatgaaaggc tctgcaatca ctggacctat cggcaaggag tgtgctga 408

<210> 15466
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-E10

<400> 15466
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 agacctgccg gcaacatggc ggc 83

<210> 15467
 <211> 415

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-E11

 <400> 15467

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 caagagacgg tgggtgccgt gccgtcggag gaggacaagg aggccgaggg ggcgtcgggt 180
 cacaagatct ccagcctggc cgccgtcctc gcgaagctgc catccctgag cccgtcggcg 240
 gaggtgaacg cgctcttcac cgagctcgtg acggcgtgca tcccgcgcag cagcgtggac 300
 gtggagcggc tgggcccggg gctgcaggag atgcgcggcg ggctgatccg cctctgcgcc 360
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<210> 15468
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-E12

 <400> 15468

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 cattcgccct aatttgtatc catatcccaa tggcaggcct atctctgcaa caccctggg 180
 cattcacttt cggcctccta ggcaacgtca tctccttcat gaccttctg gccccgatac 240
 cgacgttcta ccgcatctac aagagcaagt cgacggaggg cttccagtcg gttccgtacg 300
 tgggtggcct gttcagcgcc atgctgtgga tcttctacgc gctgatcaag tccaacgaga 360
 cgttcctcat caccatcaac gcggccgggt gcgtgatcg 399

<210> 15469
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-C7

 <400> 15469

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cgtcgccgcg agggcgacga gggccgcata tcgaagcgct cccgctcggg ggaggaccgc 180
gagcggggcc ggcaccgcag cgttcgggag caccgggatc gggataagga tgacgggaag 240
gagaaggaga ggagccgcga tagccgcggg aaggacagag acagggaagg gagagaacgg 300
gagaaggaga ggggggacag gcaccggccc agagagaggg aggtggaacg ggagcggagg 360
agcctgagcc gttcggagcg gcgccgtatc gaggaagagg agatggtgag ggagctggag 420
atggagcgcg agc 433

<210> 15470
<211> 295
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-017-Q1-K1-B12
<400> 15470

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accacagaga agatcatcgc cgagtacata tggatcgggtg gatctggcat ggatctaagg 180
accaaagcca gaacctccc ggccccgggtg accgatecca gcaagctgcc caagtggaac 240
tacaacggtt ccagcaccgg caaggcccc ggcaaggaca gcaaggcaat cctgt 295

<210> 15471
<211> 317
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-017-Q1-K1-B2
<400> 15471

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ctcgtggaac taccagctca gaagttcggg gggggggggg gggngggcg ggagcgacga 180

acgctaattgc ggcgacttct taactcgcta gctcttacac agttatgtac ctgaccccttg 240
 tacagatggt gctgatgtgt gaatagaatc gtaagcacgt caaaggagc caagggtga 300
 aaaggacac ctacctt 317

<210> 15472
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-B6
 <400> 15472

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 tcgagcagaa gaaaatgcaa cgggcagtg agaccgtcag gtcacacggc aatgttctta 180
 aatatgctgt tctacaacac atcagcgctc ccaagccagc aatgcttctt gctgcctttt 240
 ctgctttcat gtcagtttca tctgctcgcc tagaggatcg tggatttgaa actgccactg 300
 tagcagatgt cttgaagtct aaagggaaga gtgctgatgg atcttggtc tgggtgcacca 360
 cagaggatag cgtctatgac gctgtcaa atctatgactca gcacaacgtg ggagcttttg 420
 tggttgtcaa acctggacag aa 442

<210> 15473
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-B8
 <400> 15473

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 aagaagcatg ctgccgggac ctacaaaagc ctgggtctttt accttgaagc atgcgaatct 120
 gggagcatct ttgagggcct cctgccgaat gacatcaatg tgtatgcgac caccgcgtca 180
 aatgcagagg agagtagctg ggggacgtac tgccctggcg agttcccgag ccctccaccg 240
 gagtatgaca cttgcttggg agacctgtat agtggtgctt ggatggaaga cagtgatttc 300
 cacaatctgc gaactgaatc tctcaagcag caatacaact tgggtcaagga taggacagcg 360

gttcaggata cattcagcta tggctcccat gtgatgcaat atggttcatt ggagttgaat 420
gttaagcatc tgttttcg 438

<210> 15474
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B9

<400> 15474

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caattccgga aaaaagggct gagggtaagg acatccagcc tcttgtctgc gacaatggca 180
ctggaatggt caaggctggt tttgctggcg atgatgcacc aagggcggtt tccctagca 240
ttgttggccg tctcggccac actgggtgtca tggtagggat gggacagaag gacgcatatg 300
ttggcgatga ggcacagtcc aagagaggta ttcttacgct caagtaccg attgagcacg 360
gtattgtgag caactgggat gacatggaga aaatctggca tcatactttc tacaacgagc 420

<210> 15475
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C1

<400> 15475

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cagaatctga aacaatctgg aagcatggtt cccccaacag agcttgacaa ggggttacaa 180
cctgcccag attcggttca ggttaaggat catgatcatt ctactgctga cagcaagctc 240
ccatatggta ctgactggtc tccacaagat ggcccgacat ttgcgaacca atcttccctt 300
cctgagccat ctggtgatcc gtccttgat gaggcacgt ttcagtcac tacattggtt 360
actgatgtag ttaattcaca tgaaaattca cacttggatg aaaacgacac ctttgcaatg 420
ggaccagc 428

<210> 15476
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C11

<400> 15476

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 gaggagcagg aggagcagct cgccggcggc ggggtacggcg agtccgccga gtacacggag 180
 gccacggtga cggaggtggt gtccacgggc gagaacgagt acgacgagta caaggaggag 240
 aagcagcata agcacaagca gcacctcggc gaggccggcg ccatcgccgc cggcgccttc 300
 gcactctacg agaagcacga ggcatagaag gacccgagc acgcgcaccg tcacaagatc 360
 gaggaggagg tcgcggctgc ggccggcgtc ggctccggcg gcttcgcctt ccacgagcac 420

<210> 15477
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-C12

<400> 15477

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 gtgagtcac ctccgccgag ctgctagtct ctagctcttc cgaccattct gtcgccccga 180
 caacttgtca caactgggtc tgctccatcg gctcctcgtc cggctttaac atcacctggg 240
 ccagcagcca cttcaaattc gtgagcgcgc aacgccgcgc cctggttcac tccctccgta 300
 cgcacatcgc ctttgtcccc ggtccatgta gcggtgtctt acgctctgcg tcctcgccgt 360
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 c 421

<210> 15478
 <211> 424
 <212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-C4
 <400> 15478

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 ctgtccgccc ctgacagacg cgaccagctc accacgccgc tatggcgcac tggcgcggtt 180
 caagtgtcca gccgtcgtcc gccaaattgc ccggagcacc gtgcgcgcc gcagtccgca 240
 gacaaggaca taaggtgtct gacagtctga gcacgcggat ctgagcagag cagctgtctg 300
 agcgcgctgc taaccatgcg gtcacgccgc tgtatgagcg cacctacgcg cagatctgag 360
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 ggcc 424

<210> 15479
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-C6
 <400> 15479

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 tctcttcggc gaggcccgcg tgacgatgcg caagacggcg gcgaaggcaa agccggcggc 180
 gagctccggc agcccgtggt acggccccga ccggtgctc tacctgggcc cgctgtccgg 240
 cgcgcccccg agctacctga cgggcgagtt cccgggcgac tacggctggg acaccgcggg 300
 gctgtcggcg gaccgggaga cgttcgcaa gaaccgggag ctggaggtca tccactcccg 360
 ctgggccatg ctgggcgcgt tgggctgcgt gttcccgag ctgctcgccc gcaacggcgt 420
 caagttcggc gaggccgtgt 440

<210> 15480
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H6

<400> 15480

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agccatcgga caagaggggtg gccctcgtca cgggcgggaa ccggggcatg gggttcgaga 180
tatgccggca gctggcggtc agcggactca ccgtagagct aaccgcacgg agcgagactc 240
ggcgcgcta ggcggcacgc gagcttcacg ggttcggcct ggctgacgac ttgtgagacc 300
agctggacgt aacggagccc agcagcgctg atcatatggc tgatttcgat aggaccaagt 360
tcgggaagct caatgtgctg gtcaacaacg cggt 394

<210> 15481

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H7

<400> 15481

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cgcttcggcg gccatgggag gtctgctccc ttgaagctgc ctctggctc catgggctgg 180
ccttaccttg gcgagaccct ccagctttac tcccaggacc ccagcttctt cttcgcttcc 240
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ctggcgagcc cggaggcggc gcggttcgtg ctggtgacgc aggcgcacct gttcaagccg 360
acctaccgcg ggagcaagga gcgcatgacg gggccgctcg ctctcttctt ccaccagggc 420
gactaccacc 430

<210> 15482

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A12

<400> 15482

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 ttcggcgagg ccgcgtgac gatgcgcaag acggcggcga aggccaaagcc agcggcggcg 180
 tccgggagcc cgtgggtacgg ccccgaccgc gtgctgtacc tgggcccact gtccggcgag 240
 ccaccgagct acctgacggg cgagttcccg ggcgactacg gctgggacac cgcggggctg 300
 tcggcggacc cggagacgtt cgccaagaac cgggagctgg aggtgatcca ctcccgtgg 360
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<210> 15483

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A2

<400> 15483

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 aactgaaaca cgaggaggag tcatggcgac cccggatgac cgcggcagct ggttgctgta 120
 cctgtcccta gccgccaaat gcgcctgcga ccagccttac cgtctcgcgg gcttctctggc 180
 cgtctgcgcc gtggccttcg tcgtgacctg cctcctgcac tgggtgcttcc cgtgaggccc 240
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 actggctgc 309

<210> 15484

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A4

<400> 15484

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 agcagatgct gactcaccag ctggtgagac caaagaatgt gaaattacag tagaggcacc 180
 atatgagaaa atagcagaca aaggtattgt tgaaccaata atcagggaga taactgaaga 240

tcaaaactgca tctggagaac cagatgaaga agctacaaca actgaggaaa cggtatagga 300
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 cgcgacaaat gaggattcaa caacagttga gaatactctg aaggatgcaa tggttgcgcc 420
 accaggtaca aata 434

<210> 15485
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-A5
 <400> 15485

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 cctgcaagg tgtggagggt tctacctcaa agactggtaa gcatggccat gccaaatgcc 240
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 acaactgtga tattccgcat gtgaaccgta ctgagtacca gctgattgat atatcagagg 360
 atggatttgt gagccttctt acttcagatg gcaacactaa ggatgatctt agactcccaa 420
 ctgatgag 428

<210> 15486
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-A6
 <400> 15486

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 tcgatctccc tacctatctc tctctctctg ctatcccttc cactgcttac ctaccacta 180
 gcttttagta gaaagaggag ggccgggacg tggtgacaag gctaggctag cttggggccg 240
 gcggagatcg atcgtcgacg tcgacggcca tgacatggtg caacagcttc aacgacgtgc 300

gtgccgtgga ggacaacctg gccaccgccg acgtcgccaa gaaacagcat ctgcaggcct 360
gcttccacgt caacctcatc aggacctgcc cctcctgcgg acaccgtgcg cagtatgacg 420
aacagcgatc ggatcgccc 439

<210> 15487
<211> 290
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-017-Q1-K1-A7
<400> 15487

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accgatctcc ctacatatct ctctctcttt ggtatccctt cctctgctta actaccgct 180
aactcttagt agaaagagga tgtacctgac atactgacaa ggctaggcta gcttgtggcc 240
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<210> 15488
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-017-Q1-K1-A9
<400> 15488

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acgacgacga cgacgcaggc gccacacatg gcatcccagc tctccgccgc cgtgccccgg 120
ttccacggtc tacggggcta cgccgcgccc aggtccgcgg tggcagcgct gccgtccgtg 180
aggggtgggca ggaagaggtc gtcgtcgac ggcatccgct gcgactacat cggctccgcc 240
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gcgccgtcgg cgaaccgcaa ggcgacggcg gggcctgaag ctggaggcgc gcgactccgg 360
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<210> 15489
<211> 409

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-B10

 <400> 15489

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 gacactgcat ctccgtgtgc aatgtcagaa cgacactgct cttcggatgg cccagttttt 180
 agaggagcat ccaaagattg ctctgtgtcta ctatcctggc ttgccaagtc accctgaaca 240
 tcacattgcc aagagtcaaa tgactggctt tggcgggtgtt gttagttttg aggttgctgg 300
 agactttgat gctacgagga aattcattga ttctgctaaa ataccctatc atgcgccttc 360
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<210> 15490
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-G10

 <400> 15490

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 aataaccctg ggctccagac cgaggtcgac cccgccacca aaggctactt cttgcaacaa 180
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<210> 15491
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-G11

<400> 15491

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aaaccgagac tgcatectac ttcgcggcgc gccgagatga gcggcatgag cctcttccat 180

cgtctgcctc ctgtcgcgga ggctgaggac cgctactacg tgtatgcagc acaccgggac 240

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acaggac 367

<210> 15492

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G12

<400> 15492

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gattggtctc gctccagttc gacgcgggat ttggacggga cgggcggaag ttgggagagc 180

agagcggccg gcatgtttgg gtccagggtc caggatgagg tggagatgca gaggaggcct 240

aacaacagga tctttcccgga cgagagacaa aatcaatcta agtcattgta tcaaactaca 300

cgggctgaca gatttggcgc aaatagaata gatctgaaga atcctgagaa gcttaagggtg 360

ttaaataaaa gcaacaaacc ctggcaccag cgtattctag accctggaag taatattgta 420

ctgagatgga acagggtgt 439

<210> 15493

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G2

<400> 15493

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gcatggtagc tgtaggccc cagatagttg tcgcgctcat acagtaccta tgacgtgcat 240
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atccacacaca tcaatgccat ct 322

<210> 15494
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G4

<400> 15494

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ttgtcaacca agctttgttg gcagcttcca caggacgcgg aagaaggaga actttcttaa 240
ttcgcgcgaa gggttagtgt gtgttggaa atgagtggcg cttttcaaag aaagaaaggc 300
agaagatcct tggagctgga gggaatagcg gagaccacga ccagggcgtc tgatggacgg 360
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G5

<400> 15495

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tcgtcgatgc ttgaattggg accctttgtc cgttttctta gactctgatg ctgtatgcaa 180
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<210> 15496

<211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-G6

 <400> 15496

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 aaaggactta ccatgccgac cctatacatg gacgccgacc atgagaaggt aacctgatga 180
 actgataacc aaataggcga ccgttatagg agctccaagg ataggggtccc tacattcata 240
 gctgatgatt ggcccacaag ggcttgtaaa tccatttcaa tgccctgtggc tgtcaaggag 300
 cttgactgta aaaaacattc ttgaaccgaa ct 332

<210> 15497
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-G7

 <400> 15497

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 agcccgtcga tctatagtca ccataatgagc taccaaagct ggttcggact gcggtccgca 180
 tcaagagctt gaccaagtac catgtcgctt gcaagcaaca aacttctgat ctacaaagtc 240
 tcttgatgtg gcctcaagcc ggtgtgctct ctccagggca ccgcatcgta gcagcatctg 300
 gcaagctcgg agagcatcac cagaacaacg ataagccggt tgacaagtgc aagggttaagg 360
 ataacattgt aagcctgaaa gccaaaggac ctgagcagta cgaatctgaa ctgaatgaaa 420
 agc 423

<210> 15498
 <211> 216
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-H1

<400> 15498

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<210> 15499

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H10

<400> 15499

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aacccaaaagg ctaaagatat gaatgacaca gaagagaccc caaaatcccc aaagatttct 120

gaagtgtctc ctcaatcacc caagatcatt cctctgactt ggtttgggaa tggatcatcat 180

catgatcaga aatcggtgc cagaaatggg tctggaaacc acaacaacgg atcaacagtg 240

gataaccaac ctgggggttc ttaccattaa gacatcatga ttcttgaagg gaaccctaaa 300

attacatcaa cttgtcccaa aaaccttccc ctttga 337

<210> 15500

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H11

<400> 15500

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accggcttca acggcaccgg gaacgggatg ggcggcagca ctactaccgg cctgggaccc 180

acgggcaacg cctttgacgc cgacgccgcc gtgcgcggcg gcctgctccc cagcgccgcg 240

tccctcggcc tcgcactcgc cgtcctctcc ttctaacct agccctgccg cgccattaac 300

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ccagctgctg ctgctacttg gctggctcca tggcg 395

<210> 15501
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H12

<400> 15501

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tcctctctct acctagctag ctagccagcc ttctgttagc gcggcagata tggctgcctc 120
caccacggcg gcggcggcgg cgtcgctgct gctgctgctg ctctgtctgc tcgccgcggc 180
ggcggacatg tcgatcgtgt cctacgggga gcgcagcgac gaggaggcgc ggccgatgta 240
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gtaccaggtg ttccgggaca acctgcgcta catcgacgcg cacaacgccg gcgccgacgc 360
gggcgtgcac tcctt 375

<210> 15502
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-016-Q1-K1-H2

<400> 15502

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gtctgctggc gaggtaatcc gtaagaagct gtcgctttcc ctactagctg ttagatccaa 180
ttctacaact tcaatgcaat gcaagctcca tccttcaccg ctcagggacc agagagacac 240
agagacgtcc tgtaaggccg ggctgctct acacactggg gaccaaggaa tggcattact 300
ctgaactaga gacacgtntc ttgattaaca cgacaggacc aaggccagca gacggaacga 360
tttaagctgc gatactagag ctgacacaga atgcgctaga tcttgtctct gctgatcaga 420
ctggtcactt c 431

<210> 15503
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-H3

 <400> 15503

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 gggcgctgct gccagaaccg aacgtgaagg tgtgctgccg agccaaccga agctacgcca 180
 tagatctgac acgacagtaa tgggttgctg gcgcacggaa actcgcaaga ctagtaccag 240
 cactggatca acgacatacg ctggagcacg tgcataagcg accatgaacg ttaagcgacg 300
 atcgc 305

<210> 15504
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-H4

 <400> 15504

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 ctagacgggc cgaaggcatt ggttaaaagg gtcccatct tgatcaacgg actcctgagc 180
 gtcaagctgt agaaggtatt gcaagacatg cacagccgaa aggtcaaaga acaggccctt 240
 cattgctaaa cctagctctc atgggaggtt taacaagcta tacgactggc tgcggcacta 300
 acgcttgat ttgcgaaccc tttgttttaa tcct 334

<210> 15505
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-G1

 <400> 15505

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 tgtacaacga cctggggcgac ccggacaaga acccgggcca ccageggccc gtgctggggcg 180
 gcaacaagca gtaccatac ccgcgccgct gccgcaccgg ccgccccagg accaagaagg 240
 accccgagac ggagatgcgc gaggggcaca actacgtgcc ccgcgacgag cagttctcgg 300
 aggtgaagca gctcacgttc gggggcacca cgctgcgctc cggcctgcac gcgctgctgc 360
 cggcgc 366

<210> 15506
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E5

<400> 15506

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 caaccggacg gcggcgctga cttegaccag tacgccgggt acgtgactgt cgacgagaag 180
 aatggccggg cactcttcta ctacttggtg gaggcaccac aggatgcctc ggcaaagccg 240
 ctctcctgt ggcttaacgg agggcccga tgctcgctgc ttggctacgg agcaatgcaa 300
 gagctcggtc cgttccgct aaacagcgac aacaaaacgc tgagcagaaa caaggcggct 360
 tggaataacg tggctaattg gatcttcttg gagtcgccgg cgggtgttgg attctctac 420
 tccaacaca 429

<210> 15507
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E6

<400> 15507

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 atacgtccct tgccccact tcttcccgct cttctatccc caccgcctcc tctccgcat 180

caaatgcgtc gctacaaaac cattcgccgt cgaggactac ctgctcgcca catgcggcct 240
 cacccaagca caggccctca aggcgtcgaa gcatgtctcc catctgaagg atccctcgaa 300
 agccgacgcg gtcgtcgect tctctccaa tctcggcctg tccagcgccg agatcacoga 360
 cgctgtgacc agggacccca aagtcctctg ctccgacgtg gagagatccc tcaccgctcg 420
 cg 422

<210> 15508
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E8

<400> 15508
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 cggtcggcca gccgccgcca accgcctcag ccccaacagt cgcaccgccg ccgccgagggc 180
 aaactcgaag ccacccccgc cgccgcagcc acagccgcgc cgagcttgag ccgtcgttgc 240
 tccgctgaat cgcccccatc gtctctcctg aagagagagg acatttattg agacagcatg 300
 cctaagataa agacaagtcg tgtcaagtat cctgaaggat gggagcttat tgaaccaacc 360
 atccgtgagt tggatgcaa aatgagagaa gctgaaaatg atccacatga tggaaagaga 420
 aagtgtgaag ct 432

<210> 15509
 <211> 397
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-E9

<400> 15509
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 ccggcctaca cagcccacaa ctcccttctc catctctctc tctctctctc gcccggtgctg 120
 cccctgttt gtgtacaacc ccatggcgac ccacgccggc gagaacggca gcgggcacga 180

gaacggcgggc gggcacgcgg agtggcggtt cgcgcgggcg gcgaaggagg gcgcgctggc 240
 cgttgcgggg gacaagatga gcatccgggc ggtgcggttc aagatcagcg cgagcctgga 300
 cgcgcgcgac ccgcggcccc tgctgccgct ggcgcacggg gacccctcgg tgttccccggc 360
 cttccgcacc gncgncgagg ccgaggacgc cgtggcc 397

<210> 15510

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F11

<400> 15510

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 gctagctgag ctccgacccg cgctagctag ctaggatacc gccataccac aagtcttctt 120
 cacaagttaa ggagtgacag caacaagaga tctcgatggc ctctgccacc gtgctcaagt 180
 cctccttcct tcccaagaag tgcgaatggg gcgccaccag gcaggtcgcc gcgcccaggc 240
 cgcccaccgt ctgcatggtc gtacgcgcct ccgactacgc cgatgagctc gtgaagaccg 300
 cgaaaacgat cgcgctcgcc gagcgggtgca ttctggcgat ggacgagtcg aacgcgacgt 360
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<210> 15511

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F12

<400> 15511

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 cgtcgtcgtc cgccttcggc gaggcccgcg tgacgatgcg caagacggcg gcgaaggcca 180
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399

<210> 15512

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<223> Clone ID: LIB3060-016-Q1-K1-F2

<400> 15512

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cggtcggcca gccgccgcca accgcctcag ccccaacagt cgcaccgccg ccgccgaggc 180
aaactcgaag ccacccccgc cgccgcagcc acagccgcgc cgagcttgag ccgtcgttgc 240
tccgctgaat cgcccccatc gtctctcctg aagagagagg acatttattg agacagcatg 300
cctaagataa agacaagtcg tgtcaagtat cctgaaggat gggagcttat tgaaccaacc 360
atccgtgagt tggatgccaa aatgagagaa gctgaaaatg atccacatga tggaaagaga 420
aagtgtgaag ctc 433

<210> 15513

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F5

<400> 15513

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ctgccttgcc gtgtcctcct cttcctcctg tcggtggcga tctctgcgga aaccgagct 180
tcgtccaagc cgggcagtag tgcgcgccgc ctgggcgtaa ttatggattc ttttgagggc 240
tctgatcata taactcaaag aaagggtgtt cctgcaaaac atattgcatt ggttgatgga 300
aagaatgagc ctgctgtaga ggggttgctt aatgggtggc tgaaagaatg caggcctaga 360
aagaaccgat atggatccag agtcaagagt gacacgttct atattgatcc aatcaatgga 420
ta 422

<210> 15514
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F6

<400> 15514

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accggcgcca gtgccgtcga ccggtgctgc tgctgcttcc ggcggcggca ctgaaaagaa  180
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acgatcggat cagcagccga aaacaaagaa gtactgggta gatgggagaa atgccaaactg  360
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ttggcgcaag ctc                                                    433
  
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<210> 15515
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F7

<400> 15515

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ccggccgtct acctccgtcc tctcgctcgt ctcgctgcag gttcaatcgc cgcgccatt  180
tctgcagttt ttaattccca cgtcctgttc cggccccggc gtgcactcca aattcttcca  240
acaaggccag cccacgccac ccggccggga tcccagaaaa gttgcgctcg gacttcgcgc  300
gttacgtctc ccaccagcc cttctatccc gtgatttcag aggcgcccct gtaccgaaag  360
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ac                                                    422
  
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<210> 15516

<211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F9

<400> 15516

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gtgccgtgag tcac 434
  
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<210> 15517
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E4

<400> 15517

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atacgtgect tgccccact tcttgccgt cttctatccg caccgectcc tctgcgccat 180
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cttcgtgacc agggccccca a 381
  
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<210> 15518
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D1

<400> 15518

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tgcaaaaact agcttgaac ttatgaagga tgctaaacgc agtggtgcaa gtctgtctat 180
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gcttgatgga cacatagaca tgctaagttc agaccactca ccatccactc ctgacctcaa 360
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<210> 15519

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-D10

<400> 15519

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gtcgtcacgt cgttcgccat caagcctcac tgtattcct gttgtgcctc gtttcggatg 360
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<210> 15520

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D5

<400> 15520

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 attattatcc gtgtagctac tagcttcatt cccccctttg taccatcaa atggctggca 240
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 tgaccttctt ggccccgata ccgacgttct accgcatcta caagagcaag tcgacggaag 360
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 cactgatc 428

<210> 15521

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D6

<400> 15521

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 tctgaagaag acatcgatat taccagcccg tggaagacca atgttctacc tggcctcaac 180
 aagatctttg acaaggatgg caacaacgct gcattctgcac gcttcttgaa acccttcaac 240
 aaagagcaca ttgacaagga gattgaagac aataagacat atctgcagcc caatgtcgtg 300
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<210> 15522

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-D7

<400> 15522

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 cgccctgcac cgtcgacccc gtcagcgacc cccagaagca actgatagtg ccggcagtgg 360
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<210> 15523

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D8

<400> 15523

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 atggtttgca agctttgggc gcaagaacaa ctctggaacc aagctctatt gcatctcagg 180
 gcatgtgaac aaaccttgca ccgtggaaga ggaaatgagc atacctctga aggagttgct 240
 cgagaggcac tgtggaggtg tgagaggggg atgggacaac ctgcttgagg taattcctgg 300
 cggttcatct gttccccctt tgccaaagca catatgtgat gatgtgttga tggactatga 360
 tgcaactgaag gctgtgcaat ctggattgtg taccgcagct gttatcgtga tggacaaatc 420
 tacggatgt 429

<210> 15524

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E12

<400> 15524

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 ctgcctgcc caccctattg cgctgtgcc tcgcttcac cgggtgcgctg cccacctcac 120
 ctcaactccg tcgtctctt cctcgtctc gctctcgtc cggagcgggtg tggaggcgcg 180
 cgctcctgga aggcacgggg caagagcgga ggaagatcat ctgggtgttg gagtcatcca 240
 gaggcacaag ctgaggaatg gggcaaaagg actccaagcc ttcacatgga tatggctact 300

cttcttatga ttacgggagt gcttcacggt gatacacctc gagaaacact gggaattcgt 360
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<210> 15525

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E2

<400> 15525

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atggcacgca agctttcgac gccagagcta ctgtggaacc aagctctatt gcatctaattg 180
gcatgttaac aaaccttgca ccgtagacga ggacatgagc atacctctga aggagtagct 240
cgacaggcac tgctgaggtg tcagaggggc atgggacaac ctgcttgccg gaattactag 300
ccgatcatat gttgcccttt tgtcaaaaca catatgagat gatgtgttga tggactatga 360
tgcaactgcat gctgtgcaat ctggattggg ctccgcagct gatatactga tggacaaatc 420
tacggatgt 429

<210> 15526

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E3

<400> 15526

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attggccgctc aggttgctac tgacaaatgc attatggcgt tcctgtttct gattgtctgt 180
ggtgtcattg caataattgt tgttaagatt gtcaaccgcg ataacaagaa catcagagac 240
attccggggc tagcacctcc cgccatgaac aggaagctgc tgtccatcga cgctgcacga 300
ctctgagcgt tgtgaatggc tgctcccg agcacagcgc aacgcagcgc gtcagagttc 360
tcttatgagc cagcatacat ggcttcgcga ttcttttgtg cttgtagttt acgttcgccc 420

attctt

426

<210> 15527

<211> 427

<212> DNA

<213> Zea mays

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<400> 15527

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ctctcagttc ttctttctcc ttatctctcc cggtcggcca agcgcttgcg ggatctttct 180
cgctgcccag cttgctccag ctcggtgcc aagcgacgga aaaatcctgc cgaccagccg 240
ccgttcggtg gcatttatcc ctcagcccg cgcgtttctc gctgtcccca tgccgcaact 300
tcaactgtggg gttgctctg ccgcgccct gttccaatcc ctatggtggc gtcggtctg 360
cagccgtgcc gtgatttctt gtcggactg cgcccagctc tgcccagcgc cgcggttgcc 420
gagctcg 427

<210> 15528

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B4

<400> 15528

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catcgcactg agcaggcttc cggggctgcc acagccacat gaagactgat cgttaagtct 120
ctacgtacta aacgacgccc tggctactcc aaccgataac gccaaagcttg ttcgacgtga 180
atgcctcctg gtgaccgatc ggctaattgt tatacatact accgatgtct agtgtgtaca 240
tgctgtcaca gacgacatgc tgaagcacat taactagatc aagatcatgg acctgtcaag 300
cgccgattac gccaaagctc tgggtggagat catgatggaa gccaaagatg ctaggatgat 360
ctacatcgct ctgatagtca tcaccgatgc acgaagctat ggtcagcaga tcataaccgt 420
c 421

<210> 15529
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-B5

 <400> 15529

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 gctatgatta ttcattctaa ataaagaaaa cgaaatgcaa ggaggatagg gattacctat 180
 gcaccaatgc atgaaagaga tagaattata attgaatata tcaacacaga ttggaggga 240
 tgacacaaca tgtataaaca tgattataat gaaaagggtc tgtttctttc acctaaactaa 300
 acattttaga gagtgtggtt tacttcagga cactatccat atgtgtgttg accaacaagt 360
 ggccatgttt ctaaatacaa ttgggcataa ccttagaaat aggtcgattg gcacgaattt 420
 tggtagatct 430

<210> 15530
 <211> 218
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-B6

 <400> 15530

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 tccatactcc ttctgtccac ctgggtgact gggcccttct acagtatatg cttcttataa 120
 ctacgcgggc accatacctg cgcacgcac aagaaatcca attcgctcgc gcacaggaag 180
 actgctctcg agagccgcat gatcatcttc tcccgaac 218

<210> 15531
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-016-Q1-K1-B7

 <400> 15531

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 gataagaaga ccaaaggtat aggttggggg ggtgctggac ataagttact ggcaatgatg 120
 gctatgaata ttcatcttta aaaaaggaaa ccaaagtcac gggggattgg gattacctat 180
 tcaccaatgc ctgaaagaga ttgaattatt attggatatt ttaacacaaa attggaggga 240
 ttacaccacc tgtattaacc tggatattat ggaaagggct tggttctttt aacttactta 300
 acattttaaa gagtgggggt tactttaaga cacttttcat atgtgtgttg accaacaagt 360
 gggcatgttt ctaaatacca ttggg 385

<210> 15532
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B9

<400> 15532

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 ccagctcgac cgtctgggctt ccctagcct cttccctcgc gagctcgact cctgctcgcc 120
 tatggagttc ttccagctcc ctgctccggt gactagggct cggcgtccgg ctccctggat 180
 gcttgcctg etc 193

<210> 15533
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C1

<400> 15533

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 gataggaaga ccaaggttat agtttgtgtt gctgctgcac ataagttact gtcaatgatg 120
 gctatgatta ttcatcttaa aaaaagaaaa cgaaatgcaa ggaggatagg gattacctat 180
 gcaccaatgc atgaaagaga tagaattata attgaatata tcaacacata tttggaggga 240
 tgacacaaca tgtataaaca tgattataat gaaaaggtct tgtttctttc acctaactaa 300
 acattttaca gagtgtgggt tacttcagga cactatccat atgtgtgttg accaacaagt 360

ggccatgttt ctaaatacaa ttgggcataa cttataaat atgttgattg gcacgaattt 420
 tggtagatct gggg 434

<210> 15534
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C10

<400> 15534

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 ttgacatggg acttcttgtt gctggcacia agtaccgtgg agaattcgaa gaaagattaa 120
 agaagctgat ggaggaaata aagcaaagtg atgagataat actctttatt gatgaagttc 180
 aactctgat aggagcagga gcagcggag gtgctataga tgctgcta atcttgaagc 240
 ctgcgttggc cagaggtgaa ttacagtgc ttggagccac tacactagat gaatatagga 300
 agcacattga gaaagaccca gcacttgaac ggaggtttca acctgtgaaa gtgccagaac 360
 caacagtaga tgaaaccatt gaaatcctca gaggactgac ggaacgatat gagat 415

<210> 15535
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C11

<400> 15535

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 tggaggtgcc ggcggagctg gtggcggtg gcagccggac gccgtcacc aagacgaatg 180
 cgtcgcacct ggtggggcgc ttcttgccg cctccgagcc ggccgtgtcc gtgcagctcg 240
 gcgaccacgg acacctcgcc tactaccaca ccaaccaggc gtccttcgt cccaggtcgt 300
 tcgcggcgaa ggacgaggtg ttctgcctgt tcgagggggt gctggacaac ctgcgtcgtc 360
 tgagccagca ggacgtgctg tcaagcaagg gcgc 394

<210> 15536

<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C2

<400> 15536

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caaggatcag tgctttatga tgttgatgaa gctactgtcc gtagtcttaa tgggtgcaga 120
gtagcagacc aaatcattag acttggtcca aattttgaga attttcgcac ggcattaaga 180
tgtttgaagt actgggcaaa aaggagaggt gtttactcta atgttactgg ctttcttggg 240
ggtgtcaact gggctttact ggttgcgctg gtctgccagc tctatcccaa tgctgtgcca 300
agtatgctgg tctcacggtt ttttagagtt ttacacaaat ggcagtggcc aaaccggtt 360
atgctttggt ctatagaaga ggaagaactt ggtttccctg tttgggatcc acgcaaaaat 420
cctc 424

<210> 15537
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C5

<400> 15537

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gccacatcat ggtctgcaag atcgccgaga agtacctgtc ggagaaggcg gcggcggcgg 180
tgcaggcgct gctgccggag tcggcgggcg gggagctgtc gacggtgtgc ccgtgggcgg 240
accagggtgag ctggcactac cactgggcca gcccgctcca ctacgccaac accccccaag 300
tctgcaactt caagtattct ggggactgcc acaattctcg tggccagcaa gggatgtgcg 360
tcgtcggggc tatcaacaac tacacggacc agctctacag ctacggccag aagacttcgt 420
ataacctga 429

<210> 15538
<211> 426
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C6

<400> 15538

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ggtgcagcgc aacgcgggca gatgcagagt ctggcaagac aagggtctct gtataacctt 180
acccttgatg aggtgcagag ccatttggga gaaccctac acagcatgaa ccttgaggag 240
ctgctgaaga gtgtctttcc tgatgacctg gaccctgatg gtggcactac cagccaatat 300
gagcagagtt cgggcctctt gcgacaggga agtatcacia tgccgcctga gtcagcagg 360
agaactgtgg acgaggtgtg gaaggacatc caggatgcac caaacagaaa tgttggggag 420
agtgggt 426

<210> 15539

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C7

<400> 15539

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catagccaga gcattctacc gtccgctcgta gcagcgatga tggctgtgac gtctctgcag 120
ttgcgcccaa cccctcgtct ccttccggcg agaaatagct ccacgggcac tgggcccgcg 180
atggccgcct tgagctgcag acacaaccag tccaccaatg tccaaggacg aacagggctc 240
agaagccacg taacgacgcg cagagacgcc ctgtcattcg tgtcatccgc gctgctggca 300
gcgttgttcg tggtagggcg tgacgacgaa gctagaactt cgaggttgga gaacaaaaag 360
aaagccctgg agaagctccg ggagaaggcg ttgggcccga aggaggagaa cggagccacc 420
ggtggcaaga 430

<210> 15540

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B2

<400> 15540

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acaggacaaa gaaggagaag tgcgctacat ggacagttaa gaatgcgcat tgacagcacg 120
aaaggatcat cgttatccct atcgcaagca ttacagccga ggagatacca ctgcccagga 180
gaaggagctt gttcagggtca agcgtgaggc cctgttgaag ggtgcgatat atgtgagccc 240
agatgccaaag cttacgttag tggttcgcgt cctgtgtatc aatgccattc accccaagac 300
ccgcaagatc ttgcagctac tgcgattgaa gcatatcttc aacggtgtct tcctcaacgc 360
taacaaggca accattaaca tgctgcgca 389

<210> 15541

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A1

<400> 15541

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actagtaggc agccatgaat ttcggtggga atggcaacgc gacgatccgg tgcaagtact 120
gcagggcgag cctgagcgtg atccccggcg agcgcgccat ccagtgcgcg caatgcaact 180
gcgtgacccg catccggcgg gccgaccgca tcccg 215

<210> 15542

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-A10

<400> 15542

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ctagtatgca ctgcgttgtg aggcgtggca atggctacgg ctacggctat ggtggttacg 120
gcagcagcaa tccccatatg aactaccacc gccaaaacac cgagtccgtg accaccgtcg 180
tcacggagat gaaccgaatg gccgtcgacg acaagccctg ctacggcggc ggcgtgcaga 240

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ccgtgcagca gaagcactcc tncctcaagg aggacaagga ggaggtgcgc ggtgctgctg 360
ccgncgtcag aagctggcac gacgagttat acaaggagga ggaggaggag aagcgcgtcg 420
tcgacacgga gtacggt 437

<210> 15543
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A11

<400> 15543

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ggcacgaagg tccacgatgc aacctacggc gtcgaaaggc ctacagtgc tagactgtcg 180
actacttgaa gaagctgctc ctaaagtgtt acggggtgt cgtacctttg gcactattct 240
tatatgtgga tgacgtcacg ggattcgaaa tgacatatct atattgagat gacagagcct 300
ttcactatca tcttcacatg gttcgtcata ctgcctataa tatacgggct cgcgcatgcg 360
atcactactg tcatattgaa cgacttactg accttgaagg ggccgagtac aaactgctgg 420
aatgaa 426

<210> 15544
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A12

<400> 15544

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tcaatgctgt tcagccgaga tgctgactct atgccagggt tgtggacagg aaaggaggac 120
ataaaaagcta taactaaaac cgctcgctca gcttccatga agttgctttc tacaatggct 180
gcaattcggg tggaggagga tggtgataac attgagaaca ctctttccgt tgctcttgtt 240
gacacctcaa aacctgggac tactgatagg agtatccaat tgaccgatcc acttgctctc 300

agttcatggg aaaggggttg cgaggagaag actttaatta cccctgtgca gtgcataaat 360
 ttgtggaggc aattcaaggc tgaaactgaa tatacagtga ctcaagcctt agctgctcag 420
 gaagcaaata agaggaac 438

<210> 15545
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-A2
 <400> 15545

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 atcgccgaca ctatcctcgc attccacgta cgtaaggaga tatcttccat acgcatcttc 180
 cgctacatca tatccataga cacgggaccc tcgtacctgc tcggcgagaa gctgcttaca 240
 gaaccagacc ggtttcagcc a 261

<210> 15546
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-A3
 <400> 15546

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 cgcgacccct cgcacaccct gtcgttcaag gcgctcggcc tcaccggcgg cgtcatcacg 180
 gctaaccggg ccaacgtcga gcacatctc aagaccaact tcgccaacta cccaagggc 240
 gagctgacgg tgtctatgat cgaggacttc ctcgggcacg gcattctcaa ctccgacggg 300
 gagcagtggc tgtggcagcg caaggccgcc agctacgagt tcagcaagcg ctcgctcagg 360
 agcttcgtgg tcgacgccgt ccggttcgag gtcgtggagc ggctgctgcc gctgctcgac 420
 cgggcgc 427

<210> 15547
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A4

<400> 15547

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attaagattg atagttggca catcatTTTT agaatgcgag ttccagagga aggtccatgt 180
gatcctattg ctccattaga tttgcctcat tcattgcatg cgttccatcg tgtctcaagt 240
agtgattctc tcaatatgga aggttaccac acattccgtg caggattttg gaattacttt 300
agtatgggga tggatgcaga agtgtcttat gcatttcatt ctgaaaggaa gaataatcca 360
gagaagttca agagtcacct gacaaatcag ggtacatacg ctaagcttgg acttaaacia 420
ggatg 425
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<210> 15548
 <211> 367
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-A5

<400> 15548

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cagggcgagc ctgagcgtga tccccggcga gcgcgccatc cagtgcgcgc aatgcaactg 180
cgtgacccgc atccggcggg ccgaccgcat cccggttgcc ggttcgncga atatgccaac 240
ggcgatccaa cggctcttat gctcgaagac ttccttggtc accggatttt caaatgccac 300
ggggagcagt ggctgtggca acgcaagggc gccagctacc agttcagcaa gcgctaggtc 360
acgagct 367
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<210> 15549
 <211> 401
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A7

<400> 15549

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tcaccgtcac aagtgccacc aaacggtgca aagatgatgt ggcagatgcc agttcctcct 120

gtgtctacaa catacaggaa agctattgga gagcataatg atacaaacca gtcctgcatg 180

aagttcctta gagaaggcag tgtgcagtct tctccaaatg gatttctatc aagtgatgct 240

gctccaagaa ccagacaagg cacttttgac cttcaacttc cagccgatca ttatatagat 300

gacgatgaca catcagataa caagcccata gatttccttg gtttggcatc agatgcaaaa 360

ccccagaatg atgctgagct tacattagtt agtgcagaac g 401

<210> 15550

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A8

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attaagattg atagttggca catcattttg agaatgcgag ttccagagga aggtccatgt 180

gacccatttg ctccattaga tttgcctcat tcattgcatg cgttccatcg tgtctcaagt 240

agtgattctc tcaatatgga aggttaccac acattccgtg gaggattttg gaattacttt 300

agtatgggga tggatgcaga agtgtcttat gcatttcatt ctgaaaggaa gaagaatcca 360

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<210> 15551

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-A9

<400> 15551

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 ccgcgcggtg cccgagacc agaggccaga cccctttctt caccttcctt cccatcgcaa 180
 tcgcaagccc ccggtccg cgctcggcg tcggccaggt tcgggagatc acttcgtcgc 240
 ggcgaggagg gagggggtcg ccgttagcgc gcggcacttg gatgagaagg gcagcgggtg 300
 aggaggatgc ggaaggcgta cagggactcc atcaagggtc tcgaagctga catccagcac 360
 gccaacaccc tggcctnca gtttccccgg gactatgatg gtgcgtgcct gcagatg 417

<210> 15552
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-B10
 <400> 15552

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 ccagctcgac cgctcggctt cccctagcct ctccccctgc gagctcgact cctgctcgcc 120
 tatggagtgc ttccagctcc ctgctccggt gactagggct cggcgtccgg ctccctggat 180
 gcttgccctg ctgcgcgcca tctgctcgg ccagcgcagt cccttctctg ctctctctct 240
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 tggttcctgc ctctgcttct gctcggaatt cccatggcca gagctttccc ctagcccgga 360
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 gctactgggt cgggtctg 438

<210> 15553
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-B11
 <400> 15553

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gtacggtagc tgccaccgtc tcatcgtcaa ccatgtctgc tgcttacacc gtggatcctc 180
atactcatcc tgctcatcaa cagcagcagt gcagcaataa agtgtcgtcc atggaaatgg 240
agatccccgg cgaccttata atccggatcg gcgagtcctg tttccctcta cacaaagcgg 300
tgatgggtgcc caagtgcggc tacatccgcc gtgcgctcga ggcggtctgc gcagcgggtgg 360
cggccaagcc cagcagcaag ggcggcgccg acgcccaccc cgaccccgat ccggcggggca 420
ccgtctagc 429

<210> 15554
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-016-Q1-K1-B12
<400> 15554

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cttggccagc acttcactaa accaccacca cgatattctg aggggtgcatt gattaataaag 120
ctagaagaac ttggaattgg aaggccatct acttatgcat ctataatgaa agtggttactg 180
gatcggaagt acgtgacagc aaaaagtcca gttctacacc ctgagttccg tggtcgaatg 240
gtctcggcat tccttttgca ccatttctct gaggtttctg attacaactt tacagctaac 300
atggagacag agctagataa tgtctctgct ggggtcaactg aatggaaggg tcttctgaaa 360
gactactggg aacgattcag caaatattgt gcagatgtga gtaaaactgga tggcagaaag 420
gtagagagaa tgcttga 437

<210> 15555
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-015-Q1-K1-H9
<400> 15555

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agggaaaaat gatcattgat ggaatagaca tatgcacact cggctctgcat gatctcagat 120
ctcgctttgg cataattcca caggaaccag ttctctttga aggaacaatt cgaagcatca 180

ttgatccaat tgggcagttt tcatattcctt aattattggtt tgtctttgat cgttttcttc 240
 ttttattttt attattttta ttttcttgta tttttttttt tatttatctt tttttttttt 300
 tttatttttg ttattccatt tatttttttt tttttttatt ttattttttt attatttttt 360
 tatttttggt ttttttattt ttttattttt cttttttttt ttttatattt ttttttttta 420
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<210> 15556

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G10

<400> 15556

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 tgatcagaca caactggagc acgacaacaa gaatgcttgg agcttctgcc tgatgggcta 180
 tagtctacgt tcaagtggaa gcagcctcct gcgtgtcccc tggttttcct ggagctgcct 240
 cgcggtgat cctgagggac tcggcgaagt cgtccaggag ctgacggcca tccggaaact 300
 gcgcttcgtc taccgacagg actagcttta cggagtttat gtagctctgg tagtgcacag 360
 tcaagcatg t 371

<210> 15557

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-G12

<400> 15557

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 gccgacgcgg agcaggagca aaagcgggca gcggcggcgg cgtacgacta cgagggcgac 120
 gcgcgtggg ccgagtactg gtccaacgta ctcggtccgc cgaacctcgc ctccgcgcc 180
 gacgtcgtcg accacttgaa gcgcaagttc taccagcgt acatcgacca tgatctggtc 240

gttgagccaa ggtcattcac cagttccact caggccagca ggccagatgt aaggtcttcg 300
tcttcgtcat ccaccgagaa cgtcagggag cgtaattcag gatctactgc aaggtcagcg 360
cctncaccac eggcaccaac acatacagac agtgccgtca accctttacg gttcgacgca 420
cgactatac atttct 436

<210> 15558
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-015-Q1-K1-G4
<400> 15558

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gctgcagcac ctcttctggt ccaacggggc ggagacggcg cagcccgggc ccgggaacaa 120
gcagtgcgcc gccaaaggagg tgggtggtgga cacggcgtgc atgctgctgg ccgagctggt 180
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ggcgctgcgg agcgtggcgc aggcagccgc cgccgtcgga gcgcacagtg gagtgcgctg 300
tataggatca tcggtggcgt gcgacgtcgt cggcgccggc caagcaataa agtgaaatga 360
gttcacatgc tcgtctgtgt tcgacttcga tc 392

<210> 15559
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-015-Q1-K1-G5
<400> 15559

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gggtgctcgg tctgcagcta tcttaggtta accagtcgtg tgtggtctat cggtttcgat 180
atagtactac tgctctgtta taatcagcgg ggaggaggaa gatgacggtg acgccacgga 240
tcacggtgag cgacggggcg ctgacggtgc gcggccgtac ggtgctcacc ggcgtgccgg 300
acaacgtgtc ggcgggcgac gcggccgggg cggggctcgt cgacggggcc ttcgtcggcg 360

cccacgccgg cgaggccaag agccaccacg tct

393

<210> 15560

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G6

<400> 15560

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cattgtgatg gagggctctca cggggtcact ctaagaccgc cttacaaga gcagcacgcg 120

ggggttcctc gcctacacca gcgtcggggc tgactgcgcg gctgtcctag cctgctacgt 180

gctctctgtc gcagactcgc cagcatctgc ggcacgcaac gatggcgcgc gcctactgct 240

gtcctcgcgc tcaccgcgcg tatgaccga ccttacgttc aacaggcggg tgatggctgt 300

caacgtcatc aggttctctt ggatcacgtt tggcac 336

<210> 15561

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G7

<400> 15561

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tactagtgac acttgatcgc aggacaaca caagataatg agctaccatc tatecttcgc 120

atctgtgtgc ctgcatctgc tgctgtcagc aacgctctct tcagtcatga ctcatcctcg 180

ttttatctgt caatggatta tgtatattaa catgcataac tagtacacgc ctacccttgg 240

gatcaagaat ggcgaataat accaacggag gcacctcctt gtcgtggtc 289

<210> 15562

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H1

<400> 15562

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 agcagcgatc gcagcaccgc ggcgagataa tgagcagcag cctgtcctcc ggcattctctg 120
 cctcgccatc tgcagcggcc agcaccgctc ggcgccgcca tgacgcagcg ccgcagcagc 180
 tgacgagggg gaaggcggcg gcgcggccac agctgctgca cgccggccgc cggcggttcga 240
 gtgtcgggag gaggccgggc ggcggcgcgg tgggtgtgag ggccgggcct gggccactgt 300
 cggagatcga gccggacctg gaggaggacg ccatcgacgt gtaccgcacc aacggcatca 360
 gcccgaggga cttcgagtac gggaagtatg acggacacca cacctatttc g 411

<210> 15563
 <211> 153
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-H10
 <400> 15563

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 tagtacacac tgatacaact aatattacat ccattccata ttacttaaact actctcatct 120
 tatttcataa ctctttatta tacactcata ttt 153

<210> 15564
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-H12
 <400> 15564

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 actgcaagat ccacgggtac gacgtcccgc cggggtcgat ggtcctcgtc aatgcgtacg 120
 ccattcaccg ggacccggcg atgtgggagg acccgaggga gttcaggccg gacgggttcg 180
 agctcggcag ggcagagggg aagtccatga tgccgtttgg gatggggagg cgcagggtgcc 240
 ccggcgagaa cctcgcgatg cgaaccatgg ggctggtcct gggggcgctg ctccaatgct 300
 tcgattggac cagggttggg gatagagaaa ttgacatggc aacagccact ggcaccatca 360
 tgtctaaggc tgtcccactc gaagctcagt gcaagccgcg agcgaacatg 410

<210> 15565
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-H2

 <400> 15565

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 tggccgagac ctccacgtat cagattctgg tgcgtctcct cgacgggagt accagatgtc 120
 tccgcttctc cagccccacc gtttcgggag ccgtgctcct cgacgccgtc gcgtcgatct 180
 ctgcggttcc cgccgacgtc ctccggctcg tcaccggcgg catcgacgta tcgccctctt 240
 ccgtctctgc ctacgacgtc gatggccagt tcccctatgc gtcagcgctg ctccgccttc 300
 gaggatgcaa ggtgggattc 320

<210> 15566
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-015-Q1-K1-H3

 <400> 15566

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 gctgcagcca tggcgacctc cgcgggcgctc tccaccgccg ccaatcccac ccagctctac 120
 cgggtcccgag ctctcgctggg caagccgggtg aaggggcttg gcctgagcat gggccgcgag 180
 cgcgcccagc ggagcattgt gtgccaggcg gcgagcagca tctccgccga ccggtcccc 240
 gacatggaga agcggaagct gatgaacctn ctctctctcg gcgccatctc gttgcccacc 300
 gtccgcatgg tcgtccacta cggcgcccttc ttcctccctg ccggctccgg gaacgccggc 360
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 acg 423

<210> 15567
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H5

<400> 15567

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cggcgtgcct gtgtcgtctg ctgttttcgt tttttctttt actctttttt tttcctcctt 180
tgcttggtca attcaatcag tatattaaga tttctgattt gggggcggct cgccatggga 240
ttcggaatgg ggaataataa caacggggcg agctcctcgt cgtcgcggct ggaccccgcg 300
gcgcgctgc tgccgcgcca cggcagcagc gggggccgcg aggggtggtgg cctgtcgtcg 360
cagcccaaga cgttcgcca cgtcttcacg gcggt 395

<210> 15568

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-F9

<400> 15568

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agcacagggg cgctgctttg gcacccgtcg ccgcaggtgc actccggtgg cgtcctcttc 120
cgccagagcc ggcgcacgtg acgccagcgc aacttgcttc tattatcgct agctgacgcg 180
gcgcttgagc tcgagcgccg ccgcgggcag cgtctccgct gcgctgccgg cgacggggac 240
ggcgggcccc gggaggctca gaaggagtct ccgagcggca tcggcgcagc actcgaggat 300
ccgtctccag gacctcctgt ggaaaacggt gccttcagaa gccctcaca ggaagaacag 360
agtgcctctg ataattntct ctatccaagc aaagacttac ttccagatga taaagagatg 420
agtatatattg atcatct 437

<210> 15569

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E12

<400> 15569

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tgagtgagtg atcgagctag ctgagctccg atcctcgcta gctaggatac cgccatacca 120
caagtcttct tcacaagttt aggagtgaca gcaacaacag atcgatggcc tctgccaccg 180
tgctcaagtc ctcttcctt tccaagaagt ccgaatgggg cgccaccagg caggccgtcg 240
cgcccatgcc ggccaccgtc ttcattggtcg tccgcgcctt cggctacgcc gatgagctcg 300
tgaagacccg caaaac 316

<210> 15570

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E2

<400> 15570

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tgggggcggtg taaaaggcg agctgccgaa cggaggagtg cctgtgcctg tggcagtcaa 120
aatgctggag gactcaacgg gggaagagga gttcatcagc gaagtgcgaa ccattggaac 180
catccaccac gccaacgtcg tccggcttct agggttctgc tccgagaggt caaggcgtgc 240
tctggtatac gagttcatgc ctaacgcgtc gctggagaag tatatacgtg gtcctccca 300
agaacagtcg ttaataacaa cggccagtaa gatgctggaa atagcgacag ggatcgcccc 360
aggaatcgag tacctgcacc agggctgcga ccagcgcac ctcatttcg acatcaagcc 420
tttcaacatt 430

<210> 15571

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E3

<400> 15571

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atggccgcca ccgcctgag catgagcatg ctacgcgcgc cgtcggcctg attctagtcc 120

ccactcaggc tcatggtctc ggatgccaaag ccgctggcag gcccaatgcg gcgacagctg 180
ctgtgcgcgc aagccaccta caacgtgaag ctgatcacgc cacaggggga agtggagctg 240
caggtgcccc actacgtgta catgctggac ttcgccgagg aggaaggcat cgacctgccc 300
ttctcctgcc gtgcggagtc ctgctcctcc tgcgccggca aggtc 345

<210> 15572

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E4

<400> 15572

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gccgtcgcgc cgctccccag gaatgggcag catcggggcg ctctcgtgat gatctcctcc 120
tcctactctt cctccttctt cgtcggcaag acgctgctga ggcaggccga ggcagcccgg 180
ccgtcgttcg ccgtgcgcgc cgcggcggat tccgacaggc cgatctgggt ccccggcagc 240
acctctccgc cgtggctcga ctgcagcctt gccggcgact tcagctttga tccctggggc 300
ctcggatctg acccgagag cctgcggtgg aacgtgcagg cagagctggt gactgcccgc 360
agggcgatgc tc 372

<210> 15573

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E5

<400> 15573

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aaggacgcca cagtccctaa catgaacatc ctacgagcgc caacatactg attctaaacc 120
gcactcatgc tcatgatctc ggatagacaa gccggtggca gaagaaatac ggcgccagct 180
gcagcatgcg cagcccatat acaacgtgaa gcagaacacg cac 223

<210> 15574

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F1

<400> 15574

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catggcgctg gagggtggg tgctgggcta cgcggcgggc gcggaggcgg tcatgctgct 120

gctgctgacg ctgccggggc tcgacggcct gcgcggggc atggtctccg tggcgaggag 180

cgcgctcaag cccatgatgt ccgtgggtgcc cttctgcctc ttctgctca tggacatcta 240

ctggaagtac gagacgcggc ccacctgcga cgacgagcac gcctgcaccc cctccgagca 300

cctccgccac cacaagtccg tcatgaagtc gcagcgcaac gcgtcctca tcgccgcgcg 360

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gcagc 425

<210> 15575

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-F10

<400> 15575

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agcacaccct gtctctgacc gaagctctat gtgggttcca attgttctt acacatctgg 120

acaacaggca gcttctgac aaatcaaacc ccggcgaagt tgtaaacct gaccaattca 180

aggcaataaa cgacgagggg atgccgattt accagaggcc cttcatgaag gggaagctct 240

acattcattt cacggtggag ttccccgact cgctggcacc agagcagtgc aaggtctctg 300

agtcggtact tccgccaaag ccttcgtcca agctgacaga catggagatc gatgaatgcg 360

aggagacaac catgcatgat gtgaacaaca tcgaggaaga gatgcgcatg aagcangctc 420

atgct 425

<210> 15576

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-015-Q1-K1-F2

<400> 15576

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tacagggtgca gtgctcgaga acgtactcca gaactgaaca agagaagcgt cgctgctttc 120
gtttggcata gcactgatac aatgtacttg aaaaaatctt cggttgtgga tctactaagg 180
gagccacata catttggcag cacagctatt gcctgttctg cgagaataaa tattgatctc 240
aacgatgata gtctctacat gcataaaaag gtgcaccaac atataaagtc gcatcagctt 300
ggactagtaa caggcactac taaatgcgct gaagaataca agataaatga tgtatcaaca 360
gatatgctct gatgtatctt cagcatacct gacatcaaaa tttcaagtgt gtcagatgaa 420
gaata 425

<210> 15577
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F4

<400> 15577

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gaggaagcgg ctccgccacg ctgatgagca cgacgaggac agcgactacg aggaggatga 120
gcaaattggaa gagatggtcc ggcggttcag gaaggcgatc atgatgagga gattcggcca 180
cggccacggc catggacgct cgtcccgtt cttacaccac atcgtgcacc gccacgccga 240
ggaggccaag aagcaggcag atgttgaaga agaggagagc ggtgtcctgg cctggatcaa 300
gggcctaattg aaccggttct agagctgcct cattcgagcg atccgtgcac tcacagtcac 360
agccatggct gcttgccttg ttactatgag aacgta 396

<210> 15578
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F5

<400> 15578

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caccacggcg gcggcgcgcg cagcgctgct gctgctgctc ctctgtgcg tcgccgcggc 180

ggcggacatg tcgatcgtgt cctacgggga gcgcagcgac gaggaggcgc ggcggatgta 240

cgcgagtggt atggcgcgcg acggccggac ctacaacgcc gtcagcgagg aggagcgcg 300

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gggcgtccac tcct 374

<210> 15579

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-F7

<400> 15579

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ccgtggggcc aataaaactg cccaaaggca ctgcaattgt gataccatt ccgatcatgc 120

atcgagacaa gcaggcctgg ggcgacgacg cagacgagtt cagtccgatg agatttgca 180

atgggatcac gggagcagcg aaagtctctc acggcctgct ggcgttctcg atggggccaa 240

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tccgcaagtt ctcttcgct ctctccctg actacgtgca cgcgcccgctg gatctcttca 360

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 tcagccaggg cacatagctc gggagtgcaa gaacgatccg gtctgcaacc tgtgcaatgt 360
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<210> 15581

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-C6

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<210> 15582

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-C7

<400> 15582

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ccccgtcaca ccgatgggtt acttcctcat cagcgccagc aaggacacaa atccaatgct 420
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<210> 15583
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D1

<400> 15583

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gatttctata ctcaagtggg cgggaaagat gctaagcaac ttgcagtact ccttgacgag 360
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gctcgggacg ag 432

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<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D10

<400> 15584

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cctgacctgg aggagacgag caccgccgcg caggccaccg tcgtcctcgg cgtggccccg 180
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acgaccatgg atatgattat tatctatcta gcttgtggtg gtggttgaac aataataagc 360
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 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-D11

 <400> 15585

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 cctgacctgg aagagacgag caccgccgcg caggccaccg tcgtcctcgg cgtggccccg 180
 gagaagaagg ccgcgccccg gttcgtcgag gccgcggcgg agtcgggcca ggccgcccac 240
 ggctgcagct gcggtggcaa ctgcaagtgc gaccctgca actgctgac acatcgatcg 300
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<210> 15586
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 15586

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 gccgcacac catgcgcaag accgtgggca agcccaaggt ggcggcgtcc ggcagcccct 180
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<210> 15587
 <211> 438
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<213> Zea mays

<223> unsure at all n locations

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<400> 15587

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atcccagaaa tgccaatcct cctgtcctt cggacgatcg ttacaatgat gcacatttca 180
ggaggattgc ttctaactg tctcatata ttggcatggg atctgaaacg ctgaagaata 240
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atttctatac tcaagtgggc gggaaagatg ctaagcaact tgcagtactc cttgacgagg 360
atcctgccct catggaacgc angctgcaat gctttaagag gcttgagctg tacaagtctg 420
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<210> 15588

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D6

<400> 15588

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gttctttggg agetggcaac ttcaatggtc ccatatgaca acatgacacc cttgcaagct 360
gcattaggag taagacaggg attgcgcttg gacattccgg gcagcgtgca cccaagattg 420
accaagctga ttcgaca 437

<210> 15589

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D7

<400> 15589

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atcacatcga gcccgttcct ggggaccag atcaatatat ctgttatgta gcttatccat 360
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<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D8

<400> 15590

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aggaatcgag tacctgcacc aaggctgcga ccagcgc 397
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<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-D9

<400> 15591

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<210> 15592
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-E1
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<210> 15593
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-E10
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<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-015-Q1-K1-C5
<400> 15594

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<210> 15595
<211> 412
<212> DNA
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<223> Clone ID: LIB3060-015-Q1-K1-B10
<400> 15595

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<210> 15596
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B4

<400> 15596

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<211> 386
<212> DNA
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<223> Clone ID: LIB3060-015-Q1-K1-B5

<400> 15597

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386

<210> 15598
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B6

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B7

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<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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cccagatgg cgaacgcgag atcgggtgtc gctgtgaacg atgagtgcac gctgaagttt 180

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<210> 15601

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<213> Zea mays

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<400> 15602

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 <212> DNA
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<223> Clone ID: LIB3060-015-Q1-K1-C2

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<210> 15604
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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-015-Q1-K1-C4

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-A9

<400> 15605

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<210> 15606
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ttccagcgac cacctctgtt tgccgggctg cgtgcccggt gcgcgcaagc gggcctnctn 360
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<210> 15607
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-H5

<400> 15607

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cgccctccat ccagctcctc tacggcctcc gcaccgcgct cgacctcatc ttcgaggaag    180
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aggcgtgggg gctcagcaac tgctgccaga aggaggagtg gttcagcgac accgtcaccg    300
ccgtcgtcgt gccgccaac atcgacagcg ccgaggtcgt caggcacgcg tggaagcgat    360
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<210> 15608
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-H7

<400> 15608

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accgaattcc ggagatgaag aagcgacttg ggttgactta tacaatgtta tgtatcgaga    180
aaagacactt tttttaggtc aagagattcg ctgcgagatc acaaatacata tttcacgtct    240
gatgggatat ctcagtttat aaaattggaa tagcgatatt tttttgttta taaactcccc    300
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tatatatata atatg                                                    375
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<210> 15609
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-H9

<400> 15609

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attgtgtccc aaaagaggac tttggaggtg gtcacccgga tcctaacctc acctatgcaa 180
aagagttggt tgaacggatg ggtcttgaa agtcacctc aaatgttgaa cctcctgaat 240
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tgacaccatc ggactctgtt gccattatag cggccaatgc tgttcaatca attccttact 360
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<210> 15610

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-A1

<400> 15610

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ctgggcttgt tcaccagcca ctaagcctac ttgccaggac agaatgccta ctgcttgggg 180
tttgactgt tgctactgc attcagaggt gtaccacata cgaatttagt aaaaaaaaaa 240
tgagttagtg ctctgttcga ctaggcatgt tgtcttgcc cgtcgagggt ggggagctgg 300
atacaccacc tnccttatgt aagaatgttt ggatgaagat atttatacat gtagtcatac 360
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<210> 15611

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-A11

<400> 15611

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cgaaagatgc agatcttcgt caagaccctc actggaaaga ctatcacctt cgaggtggag 120

tcttctgaca ccattgacaa cgtcaaggcc aagatccagg acaaggaggg catccccccg 180

gaccagcagc gggtcatctt tgctggcaag cagctcgagg acgggcgcac acttgccgac 240

tacaacatcc agaaggagag caccctccac cttgttctcc gctcagggg aggcattgcag 300

atcttcgtca agaccctcac tggaaagact atcacctcag aggtggagtc ttctgacacc 360

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<210> 15612

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-A2

<400> 15612

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gaggtcctcc tccacccgct ggtgctggtg cccgggctga cgtgcagcga gctggacgcg 180

cggctcacgg acgcataccg ctcttccgcg ccgcggtgcg gcgccatgaa ggggaagggc 240

tggttcggcc tctgggccaa ctgctccgac ctgccgcgc accactacgt gcggtgcttc 300

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<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-A5

<400> 15613

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ctgggcttgt tcaccagcca ctaagcctac ttgccaggac agaatgccta ctgcttgggg 180
 tttgcactgt tgccactgc attcagaggt gtaccacata cgaatttagt aaaaaaaaaa 240
 tgagttagtg ctctgttcga ctaggcatgt tgtcttgccct cgtcgagggg ggggagctgg 300
 atacaccacc tnccttatgt aagaatgttt ggatgaagat atttatacat gtagtcatac 360
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<210> 15614

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-A6

<400> 15614

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 gatcggtaac acgccgtgg tgtacctcaa caaggtgacc gatgggtgcg tcggccgagt 180
 catcgccaag ctcgagtcca tggagccctg ctccagcgtc aatgatagga ttggctacag 240
 catgatcacg gacgcagagg agaaagggct gattactcca ggcgtgagtg ttctgattga 300
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<210> 15615

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-A7

<400> 15615

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 cccgatctgc gccgatcggg gcgaccgtc tctggggacg ccgatcgaag gtcgggcggc 180
 gatgcttccg atatacggaa gcagtttcta gttttcttca gttggtcgcc acagtttcca 240
 gcgctttcag ccagttgtct aataacttgt tgttggtgtt gtacttaaga ttgacacgct 300

tcgtgttgta aagcattgcc atgtttgggg catgacttgt ttttgttgaa atcaattgac 360
 ttccaagggg tacactaaat ccttgatgca acataatagg atcaccgtac tgtcttcctc 420
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<210> 15616
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-H2
 <400> 15616

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 tacgaaacca aggatactga tatcttggca gcattccgag taactcctca gctcgggggtt 180
 ccgcctgaag aagcaagagc tgcagtagct gcggaatctt ctactggtag atggacaact 240
 gtttggactg atggacttac cagtcttgat cgttacaaag gacgatgcta tcacatcgag 300
 cccgttcctg gggaccaga tcaatatatc tgntatgtag cttatccatt agacctattt 360
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<210> 15617
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 15617

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 cctagataca agcatgaatg agtggctaca actcgtacta acctgatgga aggagtggat 180
 acaactctga taccatcaac ggtggtagca gcccttagct aggcggagga tcggagcctg 240
 tatcagaaat cgaaataata taagactgtc ttcaacggat cacactgtcg ctccccacg 300
 ctaaatttgg gggctacagt gcacacgcta gccgatcaac ggctcacgct accaggcgct 360

ctacgcggat gtgcccccta accaacttct ctctcccc

399

<210> 15618

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-F5

<400> 15618

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cggcacaagc aggaaggagt ggctacaact cgtacgaacc tgatggaagg ggtggatata 180

actctgttcc catcaacggc ggtggcagcc cctagctagg cgggtggatcg gagcctgtat 240

cagaaatcga aataatataa gactgtcttc aacggatcac actgccgctc cccacgcta 300

aatttggggg ctacagtga cacgctagcc gatcaacggc tcacgctacc aggcgctcta 360

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ctct 424

<210> 15619

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-F6

<400> 15619

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tctt 64

<210> 15620

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-F7

<400> 15620

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cctcgataca tgcataaaag attcactaca actcgtacta acctgatcga aagagtcata 180
tacaactctg ttaccatcaa caacagtgcg cagtccttac ctatgccgac gatcgcaacc 240
tgtatcagaa atctaaatac tataaactg tcatcaacga atcacactgc cgatccacca 300
cactaaattt ggtgcctaca ctgcacactc tagccaatca actattcatg ctaacacacg 360
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<210> 15621

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G1

<400> 15621

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cccacgcctc gagccgacca tccgcctgcc gtccgagcgc gcggcggccg acgaaacgga 120
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gcctgggtgtc atcataaatc atccccaggg tggcgacgtc tatgctgggg tgccaaagga 360
ttacactggg cgagaggtca acgtcgacaa tttcttcgct gttctgcttg gcaacaaaac 420
tgctctcag 429

<210> 15622

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G11

<400> 15622

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 cgccggcgac cacctgctgc tgctgcacgt catcaaggag cccgactacg agcagagcga 300
 ggccatcctc tgggaatcca ccggctcccc gttgattccc ctcttggagt tctctgaccc 360
 tattatcgcg aagaaatatg gagcaaaaac ccgacatgga aaccttggac ctctgaaca 420
 ctacag 426

<210> 15623

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G12

<400> 15623

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 ttgatgagga tttgctgcca ccacagcacg atgattatca catgatgtta aggttcttaa 420
 aagc 424

<210> 15624

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G2

<400> 15624

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 gggcactccg tctcgggtgg ccgacggccg cagcagctgt gaggagaggc gcgcggtgga 180
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ggccatgagg gcgcgcttcc cctactactt ctgaagcttc ccgttgccagt cctgcgtgat 300
cgagttcttg agcggcgaca tctgggtgcat gctcttgacg actgatggcg ttcttgggtg 360
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<210> 15625

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G3

<400> 15625

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gaatattcct aagcttattc gagcttgtga tgaacaacag cactggaaag aacttaccta 180
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agatgcatgg gatcatatgc agttcaagga tgtctgcgtt aaagttgcaa atgtcgagct 300
atattataag gcagttcact tctatttgca agagcatcct gatctcatca atgatatgct 360
aaatgtgctt gcacttcgtt tagatcatac cagagttgta gacataatgc gcaaggctgg 420
tcagttgc 428

<210> 15626

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G6

<400> 15626

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gcgtgtttgt cgtagcggac gaggcttacg cgcacttgac gtttggagag aggaggttcg 360

tgccgatggg cgtgttttggg gccgtggctc cggatcatcac gctgggggtcc atttcg 416

<210> 15627

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-G9

<400> 15627

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tgccggggcta cgccgcgccc aggtccgagg aggcagcgct gtcgtccgtg aggggtgagca 180

cgaagaggtc gacgtcgag ggcatgctgt gggactacat gggatccgcc atcaacctga 240

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<210> 15628

<211> 422

<212> DNA

<213> Zea mays

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<400> 15628

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cagcttattt tcagtttacg atatttatga tgacttgata tcccgaagag ttaacacaag 180

tgatgctgaa aagtttgctg aaatctgccc ttgccctgc aatggttttg catgggggtg 240

tatatgggga ttcattctgt ttatctttct ctgcgcttca atataccttg gactgggtcat 300

attgtcttga gggttcgcca ttctgatctg acaatcgact ctgattggct ttttcgaagc 360

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tg 422

<210> 15629

<211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-H11

<400> 15629

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<210> 15630
 <211> 367
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 15630

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 tcgggaaaag tgtgcctcag cctcctgaag acatggacag gcactggtaa cgaagtgtgg 180
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<210> 15631
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D5

<400> 15631

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gccgtgctgg ccgagctcgt cctcaccttc ctcttcgtct tcaccggcgt ctccgacgtc 240
atggccgacg gatccgacgg gaagcccggc gacgctatgc cgatggcgac gctggcagcg 300
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<210> 15632

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D6

<400> 15632

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ccagcggaac gcgcttgctt ccgtgctgcg cctgcagagg aagatcatga gaactatcaa 180
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ccaggaggaa taaggcggcc ggaagcgcac atgttcattg gtcaactctg gatgaaacgt 300
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<210> 15633

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D7

<400> 15633

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aggagatgct tcgcgacgcc ttccgggtact acggcaccat cgtctccgtc aaggtgatta 180
atgatcatgc tgtcaaaggc aagtgttatg gttttgttac tttcactcac cccagagctg 240
ctgagcaagc aattgcgggc atggacggca agaaattagg caaccgtatt gttcgaggta 300
aatgaagtgc gtacaagagg cccccgcgaa tttggcccaa aatgttttca gacgagatcc 360
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<210> 15634

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-014-Q1-K1-D8

<400> 15634

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tgccggcgct accacaagac acaactccca gctcaaagc tccatcaagc cctcgagtt 180
cgagctgctg caccgcgctg cgggtctcgc tccggcgcca gctctgctcc ctgaccgct 240
cacgccgttt tcttctgacg cggacggcga cgaccatccc cgagaggagt gcggcggtt 300
cggagtcatt ggcgaccag acgcgtcgtc gctctgctac ctgggctgc agaagctgca 360
gcaccgcggn gaggaggcgc cgggcatcgt tgcgtcggac gccgacggca agtcaatgc 420

<210> 15635

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E1

<400> 15635

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cgggtggcagc aaggggatcg ggcaagccgt cgtggaggag ctggccaggc tcggcgcgcg 180
cgtgcacacg tgcgcccga gcgcggcgga cctggaggag tgccgccggc ggtgggccga 240
gaaggggctt tgcgtcaccg tctccgtgtg cgacgtcgcc gtgcgcgccc accgggagaa 300

gctcgtcctg gacacggtca gcgcggcctt cgacggcaag ctcgatatc

349

<210> 15636

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E10

<400> 15636

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tcactctctg aactttcgtt cagtcagctc atgcccattg atggagcaga tgaccatgat 120

acacgatgtt atgactacat actcctactt acactacatt gatatatcgc acttatctcg 180

attgccgata tgctggacgt gcgctacact ctacatgctg acattttctaa taacgtcctg 240

ccagccttac ggctaagtgt tgcatacagc taatcgcacc aaagcgtaca aaacacgagt 300

ataccaacgg cgccgacacc gaagcttgga cccaacgtga acgccttggt tgcccgtgta 360

ccgaaccgag gacctgcaaa cccaggccct tgcgatggtc cagcgccgtt ggcgccaaaag 420

gtacaatgc cgatctctc gacgtccaat acggctgcct caatttcaa 469

<210> 15637

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E12

<400> 15637

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taaagccgag gcctcaccca ccacctgacc accatgctcc tccccctcct cagatcccac 120

ccgtctctcc accacgccgc gcgcctgtcc tccccacgca cccgcctgct cctccgccgc 180

gacgcaatcc cgctcgacg ctccccgcct atccgcatgg cggcctcgtc cggtccggc 240

gccagctccc ctgcctcggc gccgccagct gccgtggtgc acaagtcaaa gatcaaattt 300

tgccctgctt gtggaagtcc aacgaaactg gccatactg atggcgatga gaagatgagg 360

gctggttggt cttcttgtgg aaagagtcac 390

<210> 15638
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E2

<400> 15638

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ccgccgccag tgggagcttg atcccgccag ctgccctgat cgcagttgcc atccgctggg   180
cgtcggcgctc ggcgtcccaa aagagggggc tgctgctgac gacggcgagg ggcggcggag   240
tcgcgcgggt gaggtcgagc gggatcgaga cgacgtcgac ctcggtggga gctgaggccg   300
tcaccgggca ggtcacggag gtcaacaagg acaccttctg gcccatcgtc gaggccgccc   360
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ctcccaag                                         428
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<210> 15639
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E3

<400> 15639

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gcctgtatct tgaccatctg agatgtattg atagagttgg gtaatgctgt tgggcgtatg   180
tgtattttct gtgcggttgt gcctgacttc tcttgccggg gcactgaata atcggccatg   240
tttgaataaa gaaagccggt atggtttctca tt                                         272
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<210> 15640
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E4

<400> 15640

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 actacgacga actggacgac tcaccaacct acatgataag tacgagcacc gtcaggaggt 120
 accaactcta tgtaaaaaga atagcacgac gtatcgatca cggagaaaac atctgaaaaa 180
 cctaataatac gccaccgacc aagctaggag ctacgccatc tataacgcgg aacaacagaa 240
 tcaagaactg gactccaact tacatgtctt catcaaacc atgaccaga tccaagtcac 300
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<210> 15641

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-E7

<400> 15641

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 tccaactttt tggagaaaaga ttaggaggac gtatggatca gtgagaaaag atctggaaaa 180
 ccgggtgtac gcgaccgacg aggcgaggag ctacgccatc tgtaaggcgg aagaagtgga 240
 gcaagagctg gactccagct tccccgtctt catcaaacc atgaccagc cccatgtcac 300
 cggaggcttc tggctgggcc tcccaaatac tttctgccg aagtacctgc ccaagcgtga 360
 cgagacgac accctgctgg atgaggatga caacgagtc tacacgctat acctcgcat 420
 g 421

<210> 15642

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-014-Q1-K1-E9

<400> 15642

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 caccacatcc acggcggcgg cggcagtatc cttctccctc ccctcaccac cgcactgccg 120

cggggcccgg cgccgccg cgcttccct cctccgtgcc gcctgcaccg ccgcgcccc 180
ctcccccgac ctctccatcc agctctcgcc ccgcgcgtcc ccgcccgcgt ctaccaacgg 240
cgccgtcacc gcgcttggac cccccgtgtc cgctccttt gccctgacc gcgccgagga 300
cctgcaggcc gagggccg cgatggcccg cgccgctggc gccacagtct acagtcccga 360
gtcctcngc cgccgctacg gctccgccc cttcaaggtg gcgctccggg caggggacgt 420
gctga 425

<210> 15643
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 15643
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tggcgtccgt caccggccgc gcgccggtcg cagccctgcg cccgtcgtcg tcgtcggcct 120
tccttggcca ctctagccgc ctcgcccgca ctgctaccgc gtcgccgacg aggcggagcc 180
tcaaggcgga ggccaagggc gagtggctcc cgggccttcc ctccccgcc tacctcgacg 240
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tgaggtggta cgtgcaggcg gagctgggtga acgggcgggtg ggcgatgctg ggcgtggccg 360
ggatgctgat cccggagggtg ctgaccaagg cggggctgat caacgcgccg cagtgggtacg 420
acgccggcaa gtcggagtac ttcgcgtcgt c 451

<210> 15644
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D2

<400> 15644
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caacgctgat atcaacttgt gcaaagtgtg gaaaagttga tgccatgttt gaggtatattt 180

atgagatggt cagtgcctggt atagagccaa atgttaacac atacagtga ttaattgatg 240
gctgtgctag agctgggcaa gtggctaaag catttggtgt ttatgggatt atgagttcaa 300
agaagggtgaa gccagatcga gttgtcttca attctttgat cagtgcacgc ggtgaatctg 360
gagctctggc tcgggcattt gatgttttat cagaaatgac agcagaatcc tctgaatcta 420
aaggatggaa 430

<210> 15645
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-B4

<400> 15645

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cgaaccctct gtgcgagaaa aggccgaagc agttcggcat cggcggcgcg ttgcctccca 180
agaaggacct gcaccgatc gtcaagtggc ccaaggctcg gcgcacccag cgccagcgctc 240
gcacccctcaa gcagcgctc aagggtgcctc cggcgctcaa ccagttcacc cgcaccctcg 300
acaagaacct cgctaccaac ctgttcaaga tgcttcttaa gtaccggccc gaagacaagg 360
ctgccaagaa ggagaggctt ctgaagaggg ccagggctga gaatgaagga aaaactgttg 420
aatc 424

<210> 15646
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-B8

<400> 15646

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ttaaaaaaag gagaaatttg ttgggtttga agaaaaatta aagggaattc tatcaatttt 120
aattttccat taatttagtt agtttttctt aatggaaatt gaaattatta actaacagag 180

caaacacaaa taaagaaaca actttgctga ccatgataga tttttatcta gttggaagag 240
 tcctcttaat attcatctag tcttatataa gtttgggtat atagaaatac aaacagaaaa 300
 gagaggatag aggataggct cattacataa aaaaaagata tggaaatagc cataatacat 360
 aacanaaaag aaaaaaagga gcgggagagc caaatgaatc gaaagattca tgtttggttc 420
 gggaagagat cataaaaatt gtaaaacttaa tagca 455

<210> 15647
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-B9

<400> 15647

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 ttccacgggc gcacctcgac gtgccttgag ctaggggttc ctctgccgct acctccgttt 180
 tacgcggccg gcgcgcagcc atggcgatgg tgcaggcggg catgggcctc acccgggtcg 240
 tggtcctcgt tggcgccggc gtcgccggct ccgtcgttct ccgcaacggt cgcctcgccg 300
 agatcctcgg tgagcttcag gggatactcg acaaggggaa caaggggaag gacggaagaa 360
 ggggagacgg ggaaaccgat ctcaacgagg ctcttacctc gcaggtgcgc cgncttgcca 420
 tggagat 427

<210> 15648
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C1

<400> 15648

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 agcgtaccgg tccccatcct ctttttccga accaccggag cgcggcggcg cggcgcgaga 180
 cccttcccgg cttctactcc tccgatactc cgcaccggct gacgagtagc cactcactg 240

ggggacgtgg gatcgatcgg cggctgatgg gaggctagat tccgcaatcc cacagactag 300
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 cgggcggcgt ccggcctggc ccgtttggct ctgcgaagga acctcttgcg cgccgcggca 420
 agcccccttt 429

<210> 15649
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-014-Q1-K1-C11

 <400> 15649

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 aacttcctct ttctccaagt actccgtcgc ggacagctcc atggacctgg gcagctgccc 120
 gttctccgag gtcgaggtgg gcgggggaag tctgcgagaa ggtgacgagt cggagaagga 180
 gagggcaactg gttctgcgca acaaggcgcc gaggtggcac gagcagctgc agtgctggtg 240
 cctcaacttt cgcgggcgcg tcaccgtggc ctccgtcaag aacttcacg tgatagctcc 300
 tgcaaagacg cagccgcagc cgcaggcctc cggccccccg ccgcgcgcgc cgccgtcgtc 360
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 catggacta 429

<210> 15650
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-014-Q1-K1-C5

 <400> 15650

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 gaggcacctg tctttgtgga ccctcatggg cgtggtttgc gtgccctctc cagggcccag 180
 attgactctg ttctggatct tgcacggtgc acaattgtgt ccgagctctc caacaaggat 240
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aagacctgtg gcactaccaa gctcctgctc accattccaa gaatccttga gcttgctgaa 360
gagctgtcta tgccacttgc tgctgtgaag tactcccgtg ggacgttcat ctttcctggg 420
gcac 424

<210> 15651
<211> 293
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-C8
<400> 15651

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atagagcaga tgaaatggct gacgactagc cgggctaggt gccgtgcac tacctgcaaa 120
ggcggcgtagc cagaagaagg tgtggacatg ggagaagtct cgcacgagca tgcttgtggg 180
cactggaaaag cttngaacga tgaacgctga tattcgctcg atgcaacttt cgggtggggta 240
catgattcaa tttgctatgg tgaaaatttt gaccgtagct tagacaataa ata 293

<210> 15652
<211> 388
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-D1
<400> 15652

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ggcatggcgg tgagcaacaa catcacggca tgcacaaact tcttgggtgct tctctgcacc 180
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aggctggccc gctggcccat cgcggtgctg ggcgcgctcc tcttgcctgg cgcgctggcg 300
ggtttcgcgg gcgcctactg gaaccgcagg ggctgctcg cctgctacct cttcgcgatg 360
ggcgcctaa tacgctcttc ttggcctt 388

<210> 15653
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D10

<400> 15653

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gaggggggacg gccggtggga gctggatgcg gagaccccg tgacgatgga gggcacggcg  180
cgccccgtcc cgggggaccc cctgcgcgtg gggctctcac ggggctaccg catcaccogt  240
cccaagcagc tagacttctt ccaccggttc atggcgctcc ctctggtacc caccttctcc  300
gccatgcgcg acggcctctc cgtcaaccac gccacattt tctacatgac agacaactgg  360
tcttttacca tcttgagaa aatcaatggt aagaagcttg tgtctgtcgt gaaagagaaa  420
tta                                                                 423
  
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<210> 15654
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D12

<400> 15654

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tttccccaga cactccacgc tcaatcttcg ttacttccg gggacttttt tatgacacgg  180
ggaatgaccc cgagggcgga tactatgcaa gaggtgcgcg agcttcgcta tgggagaact  240
tcaagagcaa ccctctgttt gacatttcca cagaccacc tgccacttac tatgaagaca  300
tgcagcgcgc tgtcttctgc ctgtgcccat tgggctgggc accgtggagc cctaggttgg  360
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t                                                                 421
  
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<210> 15655
 <211> 443

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-014-Q1-K1-B3

 <400> 15655

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 atggaaaagg ttagegcctt tgggtgagcgc ctgaagatca ccgggacgga ggtcagcaag 360
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 actccccgtg ataagattgt tga 443

<210> 15656
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-H7

 <400> 15656

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 taatttgctg cacaatatca catactgccg cgattttaca cggcgatgc gtccacctgt 180
 aaacgatgtc agagtactac cacgattgcc ctgactctta catccaggcc agcacctaca 240
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 catgccattg ctggctgcgc cttttacatt tt 332

<210> 15657
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-H8

 <400> 15657

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cgattgaggc tatgttgctt ttaccctcgg aatttcattt cgcggttggg gcatggatga 120
agaggaactc acctccggcg gctgcgactc tgcgttgctg gcgccggaac cgcgcgaaca 180
ggctgtcgaa gaggggaggt caccgcgaga cgcggaggcg ttcgaagact ctgtggaaga 240
ggc 243

<210> 15658
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-A12

<400> 15658

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acgatataca acaggggaac ttggtacaga accagccaag ctgcaagttg aagaaatccc 180
aagccaagct gaacagggtc ttatacagaa ccagcagctc ccggccatgg agaaagagaa 240
gcaatccggt cctgaatgct cgctccaaaa aagtgttagt tctggatgcc tcaactcagc 300
agattggatg aatggacctg ccaggccaaa ctttcttgac ttccaggggc tggactttga 360
ggcagcattt gggctgagga gagcttacag tgaaggagac attcagatat gaaatgaggt 420
tg 422

<210> 15659
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-A2

<400> 15659

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tgggcaccat gtcattcgat tggtgcggcg cttttactaa ttgcgttcga gctgcttctt 180

tgtatatatc ttgaaagcat aagagttaga aatcatccat ctgttgatct gaagattgtg 240
 ttcccttccc ctgttgggcc tttgaagcca ttaatcctta ttgacaattt tagaatgtgt 300
 agagctttta tgcctgngga ttgaaaaagc atgagtgatg aagctatttg ggagaccact 360
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<210> 15660
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-A6
 <400> 15660

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 caccagccct cgcccggagg tcggcgccag cgagctcgcg ttcgagctcg acgagaacct 240
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 tcgccaccgc atcttccacg aggagctggt cgtgaaggcc ttcttggagg ccgagaaggc 360
 tcaccgtggc cagacgcgcg cgagtgggtga cccctacttg caacattgtg tggagactgc 420
 tgtgtac 428

<210> 15661
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-A7
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 ggccttggac gaccggcgac gaagctagat gcgcgacggc gcgactgagc caccagcagg 180
 cgttccagct ccagcaggcc tcgtgtgtgg gggcgctggg cctgccgctg gcggctccga 240
 tctcgtcggc cgcgcgggcg gcggcaccag cgccgatgat agcgcagcag tacgctgctg 300

gcggaacggct gttegtggga gacgcggcgg agagcggcgt cacgttcgga ggaggaggtg 360
 cgggtgcacgt gcagcaggag gcgccccgga agcgggaagcg cgccgagcag gggcagacga 420
 cgccgtcggt tcttgggacc ggcgc 445

<210> 15662

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-A8

<400> 15662

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 caagatagaa ggccgtggta atggtatcaa gacaaatgtt gtgaacatgg ttgacatagc 180
 aaaagcactt gccaggccag ctctctacac aaccaagtac tttggatgtg agcttgggtgc 240
 acagtccaaa tttgatgaga agacagggat ttccttgggtt aacggggctc atgatactgc 300
 aaagctggct ggtctccttg aggtattcat caagaagtat gtccaatgtt atgggtgtgg 360
 aaatcctgag acagagattc tcatctcaaa gaccagatg atatcactga aatgtgcagc 420
 ctgtgggt 428

<210> 15663

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-A9

<400> 15663

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 gagagttagc caaacaagtc gagaaggaaa taaaggaatc agcacccaag ctcggcacag 180
 tgtgtgtata tggcggagtc tcatataatg tccagcagaa tgcactctct agtgggtgtc 240
 atgatgctga tggaacacct ggccggataa tcgatttgat caatggcgta agcctccagt 300
 tgggagaagt ccagtattag gccctggatg atgctgacca aatgctcgca gtgggggtttg 360

cggaagatgt aggcacaata ttacaacagc tttctgcacg ctggcaaagc atgtcgatct 420
ctg 423

<210> 15664
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-014-Q1-K1-B1

<400> 15664

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ccatgcccac tgtgctttca gttaccatgg ccattgggtc gcacaagctg tcacagcagg 120
gtgccatcac taagaggatg actgccattg angagatggc tggatggac gtgctttgca 180
gtgacaaaac cggcacactc accctcaaca agcttagcgt cgataagaac ctcgctcgagg 240
tggtctgcaa aggcgtcgac aaagaccatg tggtgctggt ggctgcaagg gcttcaagga 300
ctgagaacca ggacgccatc gatgctgcca tgggtggcat gcttgctgat ccgaaggagg 360
ccagggctgg tatcaggga atccacttct tgcccttcaa ccctgttgat aag 413

<210> 15665
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-B11

<400> 15665

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caccatggc ggacgtgcac gaacctttgg tgcgccgtaa gaggaagaag gttttggtgg 180
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tgatctactt caacatcttc ctgggcgaca tgtgggtccgc catgaagtcg gagaagaagc 300
gccagaagca gcacgacgag aacgtgcaga aggtcgtgaa gcggctcaag cagaggaacc 360
cgaagaagga cggctcttgtt tgcacggcca ggaagccctg gatcgtggtt ggcattgcg 418

<210> 15666
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-B12

<400> 15666

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 ctagccttgt tggcgggtggc cctggtctcc ctggccggcc cagccacggc cgcggggaac 180
 aagaccgggc aggtgaccgt gttctggggc cggaacaagg ccgagggcac gctgcgcgag 240
 gcctgcgact cgggcctcta caccatgggtg atcatgtcct tcctcgacgt ctacggccccg 300
 cagcggggcg gctaccacca gtaccacctg gacctgtcgg ggcacccgac ggccggcatc 360
 ggggacgaca tcaagcactg ccagttcgtg ggcgtgccgg tgacgctctc cgtcggcg 418

<210> 15667
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H6

<400> 15667

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 gtttcgggtgt ttctgtcgg tggtggcgac gactggggcg ccgacgctgc caccgcccta 120
 cgccagaatg cagtggcgga aatttgatga gttagagctt attactggtc tgatactcct 180
 atacgatgtc actgaaactt ccaattccgc aagggtttc cttcttaaga agtgttggat 240
 ggtttgagga ccggaagggt gattcagcag ccaaacagca gttatcccca acgttgaaac 300
 tccagacaga taaggagacg tacagacctg gtgattcagt cactgtgact atcgaaatct 360
 gtagcccagc tagtttgaag gatgatgttg ggcaggcagt gtcaggcgag gatgccccct 420

<210> 15668
 <211> 360
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-F6

<400> 15668

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gtcatgacca tcaggtgctt caggaaggag gaaagcttct tgcaggagaa cctgaaccgg 120
gtgaactcaa gcctgaggat ggacttccac aacaatgggt ccaacgagt gctcgggttc 180
cggctcgagc tgattggaag ctttgttctc tgcttcacag ccgtgctcat ggtcacattg 240
ccgagcaact tcgtgaagcc agagtatgtt ggtctgtcac tatcatatgg tctatctctc 300
aaccaggtgt tgntctgggc catctggatc agttgcttca ttgaaaataa aatggtctca 360

<210> 15669

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-F9

<400> 15669

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gtgttggatt taaagctggt gttaaggatt ataaattgac ttactacacc ccggagtacg 120
aaaccaagga tactgatatc ttggcagcat tccgagtaac tctcagctc ggggttccgc 180
ctgaagaagc aggagctgca gtagctgcgg aatcttctac tggtagatgg acaactgttt 240
ggactgatgg acttaccagt cttgatcgtt acaaaggacg atgctatcac atcgagcccg 300
ttctgggga cccagatcaa tatatctgtt atgtagctta tccattagac ctatttgaaa 360
aagggttctg ttactaacat gtttactttc attgtgggta acgtatttgg tttcaaagcc 420
ttacgc 426

<210> 15670

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-G1

<400> 15670

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aagtctaaat tgccacacgc aacaatatcc aaacctcaac aaccctataa acgttgcatc 120
 agggagacat ttaaagattt tcctacatcg gctctgccat tggttgaaac tctgcttgca 180
 attgatccag ctgagcgaca aactgcctca gctgcattac acagtgattt ttttttcaac 240
 cgagccttat gcttgtaacc cttcaagtct gccaacatat ccaccaagca aggagatgga 300
 tgccaagtta agagacgagg aggctagaag actacgagcg gctgcaaaag ccaaaggaga 360
 accagaaaag actcgaccac gtgatcgatc tcggagggct 400

<210> 15671

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-G2

<400> 15671

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 ccgcgcgggg ccagctcgc caccgtccgg tgctccgtcg acgccaccaa gcaggcgcag 180
 gatggcggtg cgacggcggt cgcgacggag gcgccagcgt cgcggaagga gtgcttcggg 240
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 gtgaatgttg ctgtgtcagg cgcggccggg atgatatcag atcacctgct gttcaaactc 360
 gcttctggtg aggttttcgg accagaccaa ccaatagcac ttaagctact cgggttaaaa 420
 agat 424

<210> 15672

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-G6

<400> 15672

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 cgcgctcttc ctctcgtcc tctccctcct cgccgtcgcg cactgcggtg ccctcgcagt 120
 cgcagcagag cagcacaccg agcccgaatc aaccgccgcc gtggccgtca gcgacgacaa 180

cgtgctatcc gacccacggt tccacgctga ggcgggcacc gncagcgcca ctgaagagga 240
 ggccatcccg gcggagcagc agcagcatgg gttegaactc ctncgnctgc cgtctcaccg 300
 gctccaccac caccaccacc tctgggtggaa gcgccaccac gggatctacc gtgacgcgtc 360
 gcacaagttc cctgggtctg gccacggcgc gaggcgcgag caggcagtga gccacc 416

<210> 15673
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-013-Q1-K1-G7

 <400> 15673

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 ggcaggtggt ggaggtgccg gcggagctgg tggcggcggg cagccggacg ccgtcgccca 120
 agacgaaggc gtcgcagctc gtggggcgct tcttgccgcg gtccgagccg gccgtgtccg 180
 tgcagctcgg cgaccacggc cacctcgctt actccacac caaccaggcg ctcctcncgc 240
 ccaggtcggt cgcgcccaaa gacgaagtgt tctgcctgtt cgaaggggtg ctggacaacc 300
 tgggtcggct gaaccagcag cacgggctgt caagcaaggc cgccaacgaa gtggctctcg 360
 tcatcgaggc ctaca 375

<210> 15674
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-G8

 <400> 15674

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 gagcaagcac cagtgcctga tcgatggcgg cccacgtctt cctctccggc cggcagctgc 120
 tgggccgccc cgtgcagtca gccgtctcta ggtcgtcggc gaggaaggcg cccttcgtcg 180
 tcagggccag ctccagccct ccagccaagc aaggtgccga caggcagctg tggttcgcgt 240
 ccaagcagtc cctctcctac ctcgatggca cgctgcccg cgactatggc ttctaccgcg 300

tgggcctctc ggacccggag ggcaccgggg gcttcatcga gcccaagtgg ctggcctatg 360
gcgaagtgat caacggccgc tacgccatgc 390

<210> 15675
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-013-Q1-K1-G9

<400> 15675

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aatggaaaga aactgatca cttctaacct ctccatgagt gcacatgctt caagatcgtc 120
ccggaggggtt cactacatct ctctgcggc ctctgctgct gcacacaact ccagctacag 180
gaagaagaag aagaacgcc cgtctccgcc gccgtcggcc gccgcaactg acaccgttgt 240
catctcccct cctgccactg acaatgttca gtccactgct ccgaagcagg ccgggcgaca 300
ggagcttgaa gagctcgtgg ccgccaagac taacacttca agaattgcta ctgcaagaac 360
aagtgcgccg agacagtctc aggctaagct tcgccgncgg cctgccccgg caatcacg 418

<210> 15676
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H11

<400> 15676

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gaggaggcgg gggacaggaa taccaggag ccgcagcaag gtcaaggcct cagcctctca 180
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aatcccacac agcttacaat tttctatggt ggatcagtat gtgtgtatga ctcggtgcc 300
ccagaaaagg ctcaagcaat catgcttata gctgcggctg cagcagctgc ggcagccacc 360
aaaggcagtg ctgccactgc ttttaatcct ccaatgagca cttctgtagc agctggacaa 420
gctc 424

<210> 15677
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-H2

 <400> 15677

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 taatttcgcg cacaagagca cgacaagccg agatttttgg gggcgtcggc gtcgacctgt 180
 aggcgatggc ggcgtactac cacggtggcg ccggcacgga catccaggcc agcaccgacg 240
 gcctgcagac gctgtacctc atgaaccoga gctacgccgt cgggctacaa cctgtggacc 300
 ccggccatgg ctggcggcgc cgcggacatg tcgccgcagg cgcaggcgca gactcccggc 360
 gccgcgggtg ctgctggggt cagcgccgtg ctcagcctgt cgtcccgcg 409

<210> 15678
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-H3

 <400> 15678

cccacgcgta cgcgcacgcg ccatactcac cactgtgatc ccattctctt actgacaccc 60
 accctcacgg aacagctaac tctacaatct gactcaatcc accaccgct ctaccttaca 120
 gtccctgacc tttctctcgc tcatccaatc ctcattctca cctactgcca cctcaacaaa 180
 cctctccttc tcgtcccagt acaccacagc tctctct 217

<210> 15679
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-H4

 <400> 15679

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<210> 15680

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-F5

<400> 15680

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acaaggccag agttatctac cgagatttca agacatccaa cgtgctcctg gattcgaaact 120

acaacgccaa gctgtctgac ttcggtttgg caaaggacgg gccaacgggc gaccagagcc 180

acgtgtccac cagagtcacg ggcacctacg gatatgctgc tccggaatat ctgcgaacag 240

gtcatctcac gccgaagagc gacgtctaca gtttcggcgt cgtgctgctg gagatgctgt 300

cgggcccgcg cgccatggac aagaaccgcc cggccaccga gcacaacctc gtcgactggg 360

cgcgccccta cctcagcagc aagcgccgcg tctcccg 398

<210> 15681

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-H5

<400> 15681

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cactcactgc tatctccgcc gcgtccccgg aagtcgagaa agagtcctcg ccctcgtcct 120

cgccgcagga atctctgtct gctgtcgcgg acagtgtgaa ggtgctcaag gtggcagcca 180

agacgaggaa agtacctgcc ccggaaattc tctcggcgct gtccaagatc aagaaggcaa 240

aactcgacac gtcggcattc tttgagacac tcggtggtac tgagtctcca ggcaggacgt 300

ggatgcttat cttcactgca aagggtcggc tggagaaagg gcagtatttc ccagtgcag 360

cagtccaacg cttcgatgct gcnnnggaac gcatcgagaa ggcatatatt tggccccatc 420

gggtgc 426

<210> 15682
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D9

<400> 15682

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cagccggctc ggcgctgtc cgagaccgac gtcctctctc catccagtca gttgaccagc 180
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tgcagcgcct tcaacacgtc gagaagcgga tagtgc 396
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<210> 15683
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E1

<400> 15683

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gctccttcaa actgaaccag gagagaatca aattcccaat gaacaggatg aaaaggacat 180
acgagatgag aatcaaactc taaaagaaaa ggatgaagat gacatgcaag atacagaatt 240
tggagaggct aagaaagaag ttcaacacga attacctgtc tcccattttc tgatgaatct 300
aatattgcga aaagagagca gtgatgcaaa tgaagattca gaatctgaag ctgcaacgaa 360
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tgggtcactt cctac 435
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<210> 15684
 <211> 411
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-E11

<400> 15684

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ccaccgccct cccgctgccg tccgggacga cgcagaggcc gtctgcccag ggccgnctcc 120

tcttcaccgc cgcgcccgcc cgctccctcc gcctccgccc cgcgggccgc cggtcggccc 180

gctcctcgcc tcggggccacc aaggctgtgg tggcagcggt ggctgatcct ctcaagggtca 240

tgatatcagg agctccggcg tccggcaagg gcacacagtg cgagctcatc aagaccaaata 300

atcaactggc gcacatctcc gccggagatt tgttgccggc ggagatcgct gctggctctg 360

agaatgggaa gcggggccaag gaattcatgg agaagggccca gctcgtgcct g 411

<210> 15685

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E12

<400> 15685

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ccacggggcca tgtecgaccag tacggcaacc cagtcggcgg cgtecgagcac ggcaccggcg 180

gcatgaggca cggcacggga accaccggcg gcatggggcca gctgggtgag cacggcggcg 240

ctggcatggg tggcggggcag ttccagcctg cgagggagga gcacaagacc ggcggcatcc 300

tgcategctc cggcagctcc agctccagct cgtecgagga cgacggcatg ggcggaagga 360

ggaagaaggg aatcaaggag aagatcaaag agaagctgcc cggaggccac aaggacgacc 420

agcacg 426

<210> 15686

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E2

<400> 15686

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ccggtttgcc gaccagggtc caccgttcca gagtagccaa gcgaatcccg tgtctgggtc 120
gcgcgatggc ggaggagcag tccaaccccc agcaccagca agcggaggag agggagggtta 180
tggtggagca gcagcagccg aggagggccc cgaagctgaa gtacctggac ttcgtccagg 240
tggcggctgc ccaggccgcg gtgtgcctcg ctgggctcta cggcctcgcc aaggaccacg 300
ccggcccgcg ccgcccagc gttgacgccg tcgagctctg cgtcaagggc gtcgttagcc 360
ccgtcta 367

<210> 15687

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E4

<400> 15687

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aagtatgtga cctggaaccc acggcgcagc gagtatccgt tgtcagaaga ggttgatcca 180
atcaagagaa ctgaaagatc taacttgatg ctttggaaga gtccccagtt caccttggtg 240
ggggcgatta tcatcgtctt gacattacta atctacacac tagtcgttcc tccaagtaa 300
ctgcacaagt gacagctagg aagtgagttg taaatcaata ttatttcaa tgggaagtct 360
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<210> 15688

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E5

<400> 15688

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ggcttcggcc gccacggcgg cggcgccag cagcacgtcg tcaaggagaa gttcgaggag 180
 gtcgacacgg tcgcacgcgc cggcgccaac caccaccacc accatgggtca ccacggcggc 240
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 gtccacgagc gcagggagag cttcctcgcc agggctaact gagcagcccg ggcgccggc 360
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<210> 15689

<211> 381

<212> DNA

<213> Zea mays

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<400> 15689

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 tcatcgggca accgattgcc gctgaccccg gccatcggcg actgtccccc ggtttttctt 180
 taacgatttc cgattcgatt ccatggccgg ctggaccgat tccaccggca gcggcggccg 240
 aagatcagga agaagaagct tcacgacacc ccgtatact actaattcca ccaatgacat 300
 gatccatgga agtaccagcg gcggaagcgg aaggagcggc aggtggaaaa gaagcaagtc 360
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<210> 15690

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E7

<400> 15690

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 acagcttcta cgcgtgcag tgggcactgc agcatttctt cccgccgggc cagccgcagc 180
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 gccacggcgc cgcggatgtg ctgtcgtacg ttgagg 276

<210> 15691
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 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E8

<400> 15691

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 ggggtacgccg cgctgagcct gatcgcggtg atcgccatcc cgatcatgtt ccgggaggtg 180
 aggtggtact acgtggtggt ggcgtacgcg ctggcgccgg cgctggggtt ctgcaacgcg 240
 tacgggaccg ggctgacgga catgaacatg ggggtacaact acgggaagat cgcgctgttc 300
 gtgctggcgg cgtagggcgg gaaggacagc ggcgtggtgg ccgggctggt ggggtgcggg 360
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<210> 15692
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-E9

<400> 15692

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 caccaggtcc aggggcagca gcagtagcgt ggccaagggg tcaccaccac cagccttcca 180
 gttccagtgc agggcgctga ctttcgcggc ggacaccagc ctccggctcg agctggacga 240
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 cgacctccgc gcctacctcg agtcgcagga gacggcggcc caggcagacg atcagcgcg 360
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<210> 15693
 <211> 413

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-F10

 <400> 15693

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 aaaccaagga tactgatata ttggcagcat tccgagtaac tcctcagctc ggggttccgc 180
 ctgaagaagc aggagctgca gtagctgcgg aatcttctac tggtagatgg acaactgttt 240
 ggactgatgg acttaccagt cttgatcggt acaaaggacg atgctatcac atcgagcccg 300
 ttcctgggga cccagatcaa tatatctgtt atgtagctta tccattagac ctatttgaag 360
 agggttctgt tactaacatg tttacttcca ttgtgggtaa cgtatttggg ttc 413

<210> 15694
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-F2

 <400> 15694

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 gtcattctac gccgaagagc gacgtctaca gcttcagcgt cgtgctgctg gatatgctgt 300
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<210> 15695
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-F4

 <400> 15695

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ccaatgctgt aatggatcga tcgtcagatt cttccaatcc accaggctctt gccgtgcctg 240
ccgcctcaaa gccaccacag atggccgcaa ataacaacc ttggagggcc cctctgccac 300
cgctgctcaa tgctcgcgct ggttttgggt gcgatacaag cctcttctca acctcgctgc 360
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<210> 15696

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D7

<400> 15696

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gcaggacaac aaggacaagc agaaggccat gaaggctgtc tcggcgctca ccggcatcga 180
cgagatatcc gcggacatgg cgtcgcaaaa gatgacggtg gtcggcatgg tggaccccg 240
gagcgtgggtg agcaagctgc gcaaggcgctc gtggtcggcg accatcgagt ccgtcggccc 300
ggccaaggag ccggagaaga aggacgggga ggcagccaaa gaagacggcg gcgaggggg 359

<210> 15697

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-C11

<400> 15697

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gcccgcgcc gccgcggagg gcgaggcgt gtcaccctc gacgtcgaca gtttcgacga 180
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gattgttctc gctaaggttg atgctaacga ggagaagaac aggccgcttg ctaccaagta 360
 cgagatccaa gggttcccaa ccatcaagat attcagggaac caggggaaga acattcagga 420
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<210> 15698

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-C12

<400> 15698

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 aggtgctaca acctttggag gttaccaacg tgccagaaga tgagatcctg attattcgct 360
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<210> 15699

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-C2

<400> 15699

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 cgagctgtgg ttcgagcgca tcccttcagc cacctactag ggcttacacg tcgcatggct 180
 ccgctcccc agtcccccg acgtcgcgct ccacctcatc gagcgggacc ccgacgggc 240
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<210> 15700
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-C3

 <400> 15700

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 gttgtgggtat ggttttagcct gggttatctt gtaaaaggat ctgaagtgggt taaataatcg 180
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<210> 15701
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-C5

 <400> 15701

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 cgcgcgattc ggctcagatt ctgggctcct cttgtggttt ctcggcgaat cggcgggata 180
 gggactcccg gctggagaat ctccgctctc ttctgctaac tgtttgatc attttacgtg 240
 gagattgcat gccatcacct tccttgaagt gaaaaatata tgggctgac ttggcatttc 300
 atgggaggtt ttgaagatga tgaaccaccc tcaaacgcg caagagcatc ctcatagaa 360
 tctgcaagtt taccagactg tttcttgttt tcaaatctg ccaatccttt ggga 414

<210> 15702
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-C6

 <400> 15702

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tcaccaacgc tcatcaattc gccgccgtcg tcgcagcagc agcagcagat cggccaagca 180
 gggaggacag ctgctgccgg cttcgcccgcc ggcgctgccc atcatcggcc accttcacct 240
 cgtcagcgac ctgccgcacg tctgcctacg tgacctcgcc ggcaagcatg gtggtgacga 300
 cggcctgatg ctgctccgtc tcggcgctgt tcccaccctc gacgtgtcat cggcgcgga 360
 cgcggaggcg atcacgcgca cgcacgacca cgtgttcgcg tcgcggccca cgttcaactct 420
 c 421

<210> 15703
 <211> .434
 <212> DNA
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 <223> Clone ID: LIB3060-013-Q1-K1-C9
 <400> 15703

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 ctgccgcctc atgttgtttg cggcgcgtgt cgccaaccgc ggcacggagg cgtcgatccg 240
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 gctcgtcgtt aacatgggga agaggtagga gtagctcagc agtaggatgg agtggccagg 360
 acagctcggg gccacccgt cttcatcgat cgggaccctc tccccctcta gcgagctatt 420
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<210> 15704
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-D10
 <400> 15704

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 cccggtacct cgcgcccgtt ggccgccagc cccggcccca gcgtcgtcgt cgtcgccctcc 180

tcccaacttc ccgcgtcgtc gcgagcagc gaacgcagga gagcaccagg cctcacgctc 240
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 ttcttctctt tcatgccgcc gttcttcaca gggaacaagg aggagaagga cgctgagaac 360
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<210> 15705

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D12

<400> 15705

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 ac 422

<210> 15706

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D2

<400> 15706

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316

<210> 15707

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D4

<400> 15707

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gttcgcgccc gggctttggt accccgaaac ccgggtgtga cagggttttg aatgtttcaa 360
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<210> 15708

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-D5

<400> 15708

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gacccttttg gcctgggcaa gaagccagag gacttcgcca agtaccaggc ctacgagctg 360
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<210> 15709

<211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 15709

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<210> 15710
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A11

<400> 15710

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<210> 15711
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-013-Q1-K1-A4

<400> 15711

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<210> 15712
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A6

<400> 15712

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<210> 15713
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A7

<400> 15713

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tactgatatc ttggcagcat tccgagtaac tcctcagctc ggggttccgc ctgaagaagc 180

aggagctgca gtagctgcgg aatcttctac tggtagatgg acaactgttt ggactgatgg 240

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cccagatcaa tatatctggt atgtagctta tccattagac ctatttgaaa aaggttctgt 360

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<210> 15714

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A8

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ccaagcatca tctacttgta ggctctacag atgatgatgc ttttgatctt tgcttctttt 240

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<210> 15715

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-A9

<400> 15715

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ctactgcacg gtcattgatg cccctggaca ccgtgacttc atcaagaaca tgatcactgg 180
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<210> 15716
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-B1
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 ctgttcggtg gatgaccgcc cgggaaaaca gtgcaaccat gaggggtggaa tgggacgccc 180
 ttagctgaat aataagagga accgggggtgt agttcgctta gccgtcgtgc cgttaatgag 240
 gctcgggtgta tgcggctcgc tctgccaaagt tttgttcgcc ccttagggag gagtgcggtg 300
 catttaggaa acctaacggg cggatacagc cctggggaat ctttgtaaag gctacatagt 360
 gataccctgt tgggtcacct tggtagtgat caatggagag tcatgatc 408

<210> 15717
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-B10
 <400> 15717

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 catggcgatg gacgacggcg ggcagactt caccttcgcc gccgcccagc cgctctctag 180
 tctagtatct gcaggaggcg gcggtttcat aggcccgccg ctgctgtacc cagtcttcgg 240

ccggccgaga tccccccgc gggctgctcc ggagacggcc accgcgcggg tgccgctagg 300
acggttcctg ctgggtggaca gggatccgtc gcagccgccg ccgctgctc ccgaggacga 360
cgacgacggc gacctcgact cggtgccggc ggagatgttc tgcccgtggt cccgtgggtg 420
gtcg 424

<210> 15718
<211> 286
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-B2
<400> 15718

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cgagtgcctc tccgtaacga cctaattctt agataaccgc cctgataaac attccaacca 180
tcatactcaa atcggacccc ttacctcaa taataataat aaccgtcttt acattcactt 240
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<210> 15719
<211> 403
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-B4
<400> 15719

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aggatgtggt ggcacatcgt cttggcgctc gctgcgcg gctgcacctg caacctctgc 120
acgtcggcgg catcgccgt gtcccgcgc tccgcgcgc tcgcttactg cggcctcttc 180
gcgcctccc ttatcctctc cttcttgctc cgccagttcg ccgcgccgct cctcaagcat 240
atcccatgga taaatgcgtt tgatcaaaca ccaccagaag aatggtttca aatgaatgct 300
gttcttcgtg taagcctggg gaacttcttg ttctttgcaa tattttctct cgtgatgatt 360
ggtgtgaaag accagaatga ccggcgagat gcctggcacc atg 403

<210> 15720
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-F8

 <400> 15720

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 gaccgttgct agggcccggc gtcgtgtccg gcagcgggag gggcggaacg gcgacgccgt 180
 cggagtcgca gtcgcggtcc cggttctctc ctcatctcca ttgccttcgg acggggccaag 240
 gcgccagtag gcagtagcgg aagcgtggac gtgagcgagc gcatccgcgc ggccattgag 300
 agcttgtgca agacttaacc gtttcgcgct ttcgtgggtgc gtcattgctg ctaattc 357

<210> 15721
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-G3

 <400> 15721

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 atgagttgca tgttggtat gttgtgtaag ctctatttat ggtggtctcg ctgagacggg 120
 tatttggett cgcagttatc tagctatgtg atgtactgtt gtcttgtccc tgggtattat 180
 atggtacact gcagccagta atagtaatct gcaactgtgc gttaaagtgt ccgtcggttt 240
 cct 243

<210> 15722
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-G4

 <400> 15722

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cgggatcaac gccgtgtgca ctcacctcgg ctgcgtcgtg ccgtggaacg gcgccgagaa 180
 caagttcatc tgcccatgcc acggatccca gtacaacaac cagggcaagg tggcccggtg 240
 accggcgccct ctgtcgtcgtg ccctgggttca cgccgacgtc gacgacggca aggtcctctt 300
 cgtcccgtgg gtggagaccg acttcaggac cggcgaggac ccgtggtgga aggcattgagg 360
 atgatccgaa accagcgggtg ctcaagtgtt acaca 395

<210> 15723
 <211> 126
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-G5
 <400> 15723

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 ttatct 126

<210> 15724
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-G6
 <400> 15724

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 aaccctgtt cgcaggtcgc agcagccgct agcaccaga tcccagagtc ccagaccatg 120
 ccgccactgt gccttcttat tttgtccgcc gaacaagcca gtagtggcta catcgtgaag 180
 ggccggcaagg cagatctagg gcgatcatgg cttacgtcga gagaggtgtt ggaaggtctc 240
 gtttatctgc atgaacaagg tgtcattcat agagatatca agggcgcaaa tatactgagt 300
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 ctagagggtg ttctcgacan agaaagcttg tacctt 396

<210> 15725

<211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-G8

 <400> 15725

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 ggaagagtat tggatggttg tatctgccat attcgaggga aaggaaactt gcagtctacc 120
 atctgaatcg agttatgctt ataaatcatc atctgaacct tcaaggtcta catcattaaa 180
 cgacccatt aacaattaag ggcatttgct taaaaccatt cctcaattgg aagaaccagg 240
 tcggccttgc ccattcttgg ccaaagaaag tgttaattcc aggcactgtg ccaaaggcaa 300
 tcctgcttaa ggtggccata atat 324

<210> 15726
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-G9

 <400> 15726

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 cggcacctcg cccctgcttc cggcgatcac cttcatcttg gacaaggctc caccgtttat 180
 ccccaaggag gagcccaagg cggagccggc ggcggaggcc acctcccggg aagtcgccgt 240
 ggaggagaag aaggaggagg ccgagccagc tgcagcgacg gaggcggcac cggcgccggc 300
 agagacaccg tcggaggaag cggtggtaga ggagaagaag gaagaagaga agaaggaaga 360
 ggaagataag cc 372

<210> 15727
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-H1

 <400> 15727

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ggtttgatgg actatgcgtt tgagttcatc atcaacaacg gcggaatcga caccgaggag 180
gattaccctt acaagggcac ggacggacgg tgtgatgtca acaggaaaaa cgccaaggtt 240
gttactatcg acagctatga agatgtacca gcgaacagtg agaaaagtct gcagaaggca 300
gttgcgaaac agcccatcag tgggtgcaa at tgaagctggg gggcagagc 349

<210> 15728

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-H10

<400> 15728

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ctcatgccgc aagtcgctcg cgccgttccc gcaaggctgc ttctactcca acgcccttgg 180
agggctcaag tgctacgaga accccaagca caaggtcacc gctgtccccg ccgacgaaga 240
agagatctgc ggtgccactt tcaagggtgg ggaagggtct actgtgctga cggcgctgca 300
ctgatctatc atcatcaggc ggaggcgatg cgatgatgat gcagaacttt gtacatgcgt 360
tgggtgatgg tgggtgaaca tagtggctgc caacaagtca tgctcatgca aaccgatgaa 420
tctatctctg ga 432

<210> 15729

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-H12

<400> 15729

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cgtcggccgc cgcggttgcc gccgcgctcg acgcggagga cccgctgac cggcaggtgg 120
ttcccggtgg agatgacaac gatctggagc tgaacgcgga gtcccacttc ctgagcttcg 180

tgcagcgggtt cggcaagtcc tacaaggacg ccgacgagca cgcgtaccgg ctgtccgttt 240
tcaaggccaa cctgcgccgc gcgcgcgggc accagctgct ggacccgtcg gcggagcacg 300
gcgtcactaa gttctgcgac cttacgccgg cagagttccg ncggacctac ctccggccttc 360
gcaagtcccg gcgcgctctc ctcagagaac tc 392

<210> 15730
<211> 331
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-012-Q1-K1-H3
<400> 15730

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ccaaggtttt ggagataaac ttagtgactt acccaaagt tgctgatgcc attcttgcta 120
atggtatgtt cagtcattac gaccgccttc gtattgctca gctatgtgaa aaggccgggtt 180
tgtacttgcg agccctccag cattactcag agttgcctga tatcaagcgt gccattgtaa 240
atactcatgc cattgagcca caggcacttg ttgagttctt tggcaccttg tcaagagagt 300
gggctttgga gtgcatgaaa gaccttctac t 331

<210> 15731
<211> 327
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-012-Q1-K1-H4
<400> 15731

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tctaggagga atcaacttga ccaagctgca agccttaaag gagagcagat tggtaatcag 120
gggactctgc aattcctcga ggctgggaca gctcttcatt tccttgggaa ccccggcaca 180
ctttgcctcc atcaatgcat ctttaccggg gattgtgtgt gcagccaacg ggtctggcaa 240
ctggttgctg ctagggtaaa atcagatgac gaaaaagacg agtggtttgt cgtgaaagtc 300
atacatttcg ataaggagac aaaagag 327

<210> 15732
 <211> 127
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-H7

 <400> 15732

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 agatcggaga gtgggggtgga tacgcccgcg atcgtcggga tctgaaggct actacggacc 120
 ggctgat 127

<210> 15733
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-H8

 <400> 15733

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 gcgattcttc gccgagatat atacgaccgc ccacctacta taaattgggg gaaaggctcgt 120
 gtcaccttgc tcggcgattc tgtccatgct atgcagccaa atctgggtca aggtggctgc 180
 atggctattg aggatgggta ccagctggcc gtagaactag agaatgcctg gcaagagagt 240
 gtcaagactg gaactcctat ggacatagtt tcctccttga gacgttatga gaaagagaga 300
 aggggtg 306

<210> 15734
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-A1

 <400> 15734

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 ccgagtgggt ttttgatgct gagtgtgatg ttctgaagga ctttctggag aggaatcctg 120
 gctatacact cacatttgcg gggcattctc ttggctctgg tgtggtgtca atgctagctt 180
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ttgcaatggc accagcccga tgtatgtcac tgaatttggc tgtccgttat gcagatgtca 300
tcaatgcagt tattcttcag gatgattttt tgcctcgac agacattcct ttggaagaca 360
tcttcaagtc actattctgc ttaccatgcc ttctatgtgg aagatgccta atagacacat 420

<210> 15735

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F6

<400> 15735

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ctaaatcacc tgattttcct gagagtccat gggaaaaata tgtcatacag tataaggagg 300
atggtttctga tcacgtcat agcccctggg aacttcatga gacaggcagt ttatgggatc 360
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<210> 15736

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-D6

<400> 15736

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ggtacgaagc tgctatggag cggaactgga cccacagaga caagtgcaa gtctggtgga 180
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ctaaatcacc tgattttcct gagagtccat gggaaaaata tgtcatacag tataaggagg 300
atggtttctga tcacgtcat agcccctggg aacttcatga gacaggcagt ttatgggatc 360
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<210> 15737
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-D8

<400> 15737

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tgctggaaga ggtctcgatc ctcccctcga agcgcctccg caacaagggt gccggcttca  180
ccacccacct gatgcgcgcg atccagcggg gcccgcctcg tggcatctcg ctcaagctgc  240
aggaggagga gcgggagcgc cgcattggact tcgtcccgga gaagtcagcg ctcgaggtcg  300
aagagatccg cgtcgacaag gagaccatgg agatgctcgc ggcaacttggc atggccgatc  360
tcccggggcg agagcgccag gctgaggtc                                     389

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<210> 15738
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E10

<400> 15738

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gcggtttctg cagcaattct tggcctagca gtcctcttaa tctcaggggt tgtcacatgg  180
aaagagtgtt tggcagagtc tgtggcgtgg gataccctta catggtttgc agcacttata  240
gcaatggctg gctacctcaa caaatccggg ctgatctctt gggttcagtga gactgttgtg  300
aagtttggtg gagggcttgg catgtcatgg caactctcat tcggtgtgct ggtgctgctg  360
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cgcgttcctg tcggt                                     435

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<210> 15739
 <211> 379

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-E11

 <400> 15739

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 gcaatcttgg cgtgaaggcc ctgcccagct ggcggttcat aaccctgata gctgtgggcta 180
 tcaaagcgcg tcgagagttt ctaaagagca caatagtcaa caataggac atatatagtg 240
 tctttgtttg acatgatgcc tacaatgtca gaaggcatgg gtgagtacaa catattaagg 300
 atttgtcctt tagcgggaagc tctattgacc ttgtttcggg taaacatgac acttttattc 360
 atagctttca tggcaaagt 379

<210> 15740
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-E12

 <400> 15740

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 ttcatccaca ccagctctca acctcggggg ttttgctaag ggagcttcgt tgggacgcac 180
 agaaggagat tgtgccctcg ctggggaagt ctggagattc ctcgttgacg ttgaggaag 240
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 tgcaccatta gtttgttgta tgcctagggt catttagcat gtagccacac gatcgtttgg 360
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 catgac 427

<210> 15741
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E2

<400> 15741

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gcactttctta gtgctcccct ggaaaaatat agcaatattg ttactgcatt agaactttca 120
aactatcctc gggttatgga ttatcttgat aatgctacaa ccaaagtgat ggctgtggta 180
ataattcaaa gcataatgaa aaacacaacc tgcatactta cttctgacaa gattgaggca 240
ctattcgatt taattaaggg gctgataaag gatatggatg gagctcaaga tgatgagctt 300
gatgaagaag actttaagga ggaacaaaac tctgtagcgc gtctcattca catgctgcac 360
aatgatgatc ctgaagagat gc 382

<210> 15742

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E3

<400> 15742

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ccatggcgtc gatgacaggc ctctcgcagg gcgtcctgcc cagcaggcgc gccgacagca 120
gaaccaggac ggccgtcgtc gtcgtcaggg cgtccgcgga gggcgacgcc gttgctcagg 180
cgggccgtcg cgccgtgatc gggcttgtgg ccactggcat cgtcggcgga gccttgtcgc 240
atgcggcgcg cgcctaga 258

<210> 15743

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E6

<400> 15743

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ctcaagaaac attatatatt ggctaataatg gaatggaagg aagatattct tccagagata 120
ctggatggtc acaacgttgc agatcttctg gatccggata tcctagtaag gtgtgaagag 180

ttggaaaggg aggaagggct tcgcctggaa gaacatgctg cagaagatgc tttctagatt 240
 gatggccatg aactatctca tgaacagatg gagattctgg ctcagattag gatgaataag 300
 gcattactta tccaagaaca t 321

<210> 15744

<211> 419

<212> DNA

<213> Zea mays

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<400> 15744

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 tccgcggcct catcgccgag aagaattgcg ccccgctcat gctccgcctc gcatggcact 180
 ccgcgggcac cttegatgtg gccacaaaaa ccggggggccc ctteggcacc atgaagaacc 240
 ccgccgagca ggcgcacgga gccaacgcgg gactggaaat tgccatcagg ctgctagagc 300
 ccatcaagga gcagttcccc atcctatcct acgctgactt ctaccagctt gctggagtcg 360
 tggcagtcga ggtaaccggc ggacctgatg tccccttcca ccctgggagg caggacaag 419

<210> 15745

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F11

<400> 15745

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 gtcaacttct tcccgggggtt cggcacccggc tccagcaccg acgaactcaa caagcgcgag 180
 ctgcgccgct tcttcggcca gacctccac gagactaccg gtggcacgac aggtgccgcc 240
 gaccagttcc agtgggggta ctgcttcaag gaggagatca acaaggccac aagtcctccc 300
 tactatggac gcggaccaat tcaattgaca gggcaggcca actaccagca agccggggac 360
 gcgataggcg aggacctggt gaacaacccg gacctggtgt cctcggacg 409

<210> 15746
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F12

<400> 15746

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 tttgaatgag gagttggaag tacatcagaa caagttgaac gatttacaac ttgcacttgc 180
 tgctgcagta gcagaaaagg aggaggcatc tgaagagatt cattcgctgc ataaaacgct 240
 cgatggaatg attgagcaca aagcagaatt agaaatacag gtatcttcta ctatacaaga 300
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<210> 15747
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F3

<400> 15747

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 aagttgggct agcctcttcc taggattcca taccttgggc ctttatgttc ataacgacgt 180
 tatgcttgct tttggtactc cagaaaagca aatcttgatt gaacctatat ttgccaatg 240
 gatacaatct gctcatggta agacgacata tgggttcgat atactcttat cttcaacgaa 300
 tggccccggT ttcaatggca gtcgaaacat atgggtggcc ggatggttga atgctggtaa 360
 tgagaatagt aattcgcttt tcttaacaat aggacctggg gatttcttgg gtcaatatgc 420

<210> 15748
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-F5

<400> 15748

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ggcgcagcga cagagcagag gccatcttct ccgagatgat cgagcgaggc ttcgacaggt 180
gcgtgggttg cttatggcaac atgatctcga tgtacggcaa gatcaggagg gcgtcggagg 240
ccacgaggct gctggccctg atgaagcaga aggggtgcga gcccaacgtg ctggtgtaca 300
actccctgct cgacatgcac ggcattgctt ggaactcgaa gcaagccgag aagatctgga 360
aggagatggt gcggcgcaag gtccggcccg accggatcag ctacacgggc attattcttg 420
cgaacaaacc ggccggg 437

<210> 15749

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-D2

<400> 15749

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cagggcctgc cgcccctcgg ccgcccgcgc tctctcttcg ccgtcgtctg ctccaagaag 180
aagatcaaga ccgacaagcc ctacgggatt ggggggtggc tgaccgtcga cgtctacgcc 240
aacgggagaa agggcaaggg caagggcgtg taccagtctg tcgacaagta cggcgcgaa 300
gtctacggat acagcccaat ctacaacgag gatgactggt ctcccaccgg cgacgtctac 360
gtcgggtggaa ccactgggct tctgatctgg gc 392

<210> 15750

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B4

<400> 15750

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ccaggtcggg cttgattccc ttacccccat aacctccatc cagaatcgtg tccgtagatg 120
gaagtctctc actgctaaga caatccagct ctttattggg gacatatgtg attttgaatt 180
cctctcagaa accttcaagt cttttgagcc ggatgccgtg gtccactttg gcgagcaaag 240
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cattgggaca cttaatgtct tgtttgccat aaaggaatac agtgaagagt gccatcttgt 360
taaactagga actatgggtg agta 384

<210> 15751

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B5

<400> 15751

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cacagaccgg cagcccgtcg cacgagggcg ggcgtaggcc ctccggcacga gcgcggctgc 180
acgagcatgg ccggcgcggg ggcacggccg gcgcggctcc ccggcggtcca agcggccctg 240
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ggcgagcagag ggcggctcag cccctcggcg caggcgcgcc caccggcggc ggttcggctg 360
gccgacgcgc ggggtgt 376

<210> 15752

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B8

<400> 15752

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tcacggcgct cccaggaat gggcagcggg cgtcgtcctc cttcctcggc ggcaagacgc 120
tgctgagaca ggccgagggc gcccgccgt cgttcgccgt gcgcgccgcg gcggacccca 180

acaggccgat ctggttcccc ggcagcaccc ctccgccgtg gctcgacggc agcctttccg 240
gcgacttccg ctttgatccc t 261

<210> 15753
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C1

<400> 15753

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ctctgttccg tgacttccac agcacgctgc caggagccct atcctcaatc atgtctttcc 180
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ctttttgttt gccttatgat gattatctac tgtcagttac tcagttttat gatttgacta 360
gttacttttg tttgcggagc tggatggaac aatctttcag ggtgcttcaa cattaga 417

<210> 15754
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C11

<400> 15754

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ggcagagagt aacatgaatg acctggtggc cgagtaccag cagtaccaag acgccacagc 120
tgaggatgag gaggagtacg aggaggaaga agaggaagat cctgctgcct aagccatcat 180
cccaagtgct tggtaaagat atgatgtccc ttgtatcgct gctagtcagc actgagtcgt 240
ttgaggtgct cgtggtgatg ttaggtacta gatgggtgtc attacttatg aatgcgatgt 300
tgctgtgaca gaactgcatt tcctattgta ctatggttgt ccaagttgtc att 353

<210> 15755
<211> 428
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-C12

<400> 15755

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caggaggagg agagctacgg ctctggatat gggaggaaac cgcaggcgga ggagagctac 180

gggtccggcg ggtacggctc tggctacggc ggtcagacct ggccggagga gagctatggg 240

tcagcagggt atggatctgc caatccgcag gctgagacat acggctctgg ctacgggagg 300

aagccacagg tagaggagag ctacggatcg gagtatgggt ctgggttcgg taggaaccgc 360

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gatctggt 428

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<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C2

<400> 15756

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cgtgggctac tgcaaggcac caaccctgag ctggaaggga agcggagtag caggccggat 120

tgtggtctcc atgtccacca cccgaagagg cctcgtctcc ctaagacgac gatcccctcg 180

gtttcgcgtc tacgcggcga aggcggagac ggtgagcaaa gtgatggaca tcgtgaagca 240

gcagctggcg ctggcggcgg acgtggggct gacggcggag accaagttca cggacctcgg 300

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<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C3

<400> 15757

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 atctgcgtcg ccctctccag gtagcagaaa ctgttctgct gcagtctgac aaagtggagg 120
 gcttaggagc ttctgcttct tttatgtctg aacaatcttt gctttatttg ggattgttgg 180
 gagagtactc tcgtgcaacg aggaaaaggc acaaggttcc gtccactgc atgcgtcaag 240
 agcctgtctg gttttcttgt tctgatttgt catttgctgg tgctcagagc cggcttggtt 300
 tcctcgaagg atcagcaact actcttgatt gtggactttg tcacatctga tatcaacttc 360
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<210> 15758
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-C5
 <400> 15758

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 ctaccoggtg aaggtgagcg gggtcagat cgtgcccgat ccggtcgaac ccggcaagcc 180
 cgccactttc aagatctccg cttctactga taaaaccatc gagaagggga agctggttat 240
 cgacgtcaag tatttcttct tctacgtgca ctccgagacc cgcgacatct gcggagagac 300
 ttcttgccca gcgaccggcg acttcgtgct gtcccaccag cagacgctgg caggcttcac 360
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<210> 15759
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-D1
 <400> 15759

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ccatcatcca gtgctctctc ctcttgcat tgcctcgctc gatcctagct tcccttccaa 180
gaagcgcagc gcccatggcc atggccacgc aagcctccgc cgnacgcgc cacctgctgg 240
ccgncgcctg ggcgccggcg gcgaagccgc ggcagctgag ctgcgagctc gcgctgccgt 300
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<210> 15760
<211> 435
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-012-Q1-K1-D10
<400> 15760

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tccagctcct cagtagcagg aggtgcgctc gtgcccgcgt agccggaggc gcggtgcctt 180
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tgagagcggtt ccagagcgtc gtcagtcagc ttttccagca caggattatc cgggcgggtg 360
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tgatcccaact aagga 435

<210> 15761
<211> 224
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-012-Q1-K1-D11
<400> 15761

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agggccgtat cactatgcgc aagaccgct gcaagccaca agtggcggac ccattgcact 180
ttctgacact gtcccaacct gaaaggctaa tgggacactc tctc 224

<210> 15762
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-D12

 <400> 15762

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 taaagacaag ccgtgtcaag tatcctgaag gatgggagct tattgaacca acaatccgtg 240
 agttggatgc caaaatgaga gaagctgaaa atgatccaca tgatgggaag agaaagtgtg 300
 aagctctctg gcctattttc cgcatttctc atcaaaggag ccgctacata tacgatcttt 360
 actacagaag gaaggagata tcacaggagc tntatgagtt ctgcctagac cagggttatg 420
 cagaccgtaa cctga 435

<210> 15763
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-B3

 <400> 15763

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 tgcctaaagt ccctcgagca tgccgacgcc tcattctgcc tgaacacgcc gacgcctcat 180
 caggtgaggg gtgagccacc tctgcccgca tcttcatgcc ctttcgactt ttggtttgtc 240
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 tactcgaggg tggaagaatc ctgggcacat gtagggcgga tcgcacctat t 351

<210> 15764
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H5

<400> 15764

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ctggagcgga tagaggccac cgtaccagct gcgtagctcg ttgagctctg tctgcaatta 360
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<210> 15765

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H9

<400> 15765

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attgtgatca gccacaacct tgacaacggc acatcgagga ttaagctgcc ctctggcgcc 360
aagaagattg tcccagcag ctgccgtgct atgattgggc aggttgctgg tgg 413

<210> 15766

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A1

<400> 15766

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 ctgcgcgggc tccttcgtcg gctgcgctg ccaccgcgtc gctgagtcga gtggacgtgc 240
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<210> 15767
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 15767

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<210> 15768
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-A12
 <400> 15768

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ccatggccac cgctgggaat cgctggggcg tagtcatgtc aaggaattca gggttctcta 240
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accgctacag gataacttcc acggcggcca ccaacgacca agccgctttc atcctgagca 360
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<210> 15769

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A2

<400> 15769

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gcggcgccgat tacgccgagt ggatggccggc gcacggcccg acctacaacg ccgctcgccga 240
ggaggagcgc aggttcgagg tgttcaggga caacctccgc tacgtcgacg cccacaacgc 300
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<210> 15770

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A3

<400> 15770

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agaagatggt ggaggagcag ctctcagacg acgcccggcg cggcggcgag ctgccagagc 180
agaactaccg tggatggaag gccatgccct acgtcatagg gaacgagacg tgcgagaagc 240
tgggcaccat cggcaccacg gccaacctgc tgggtgtacct caccaccgtg tacggcatgt 300
cgggcgccag cgccggcacc ctgctcagcc tctggtcggg ca 342

<210> 15771
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-A5

 <400> 15771

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 gccttccgtg tgtttgacaa ggaccagaac ggcttcatct cggccgccga gctccgccat 360
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<210> 15772
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-012-Q1-K1-A8

 <400> 15772

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 accccaagga tagatgcagg aagggtgtaa agcctatctc ttggatgatt cagctgcttc 180
 actgttcctg aggtgtcata catgcagtaa aggtgtgctg gacttttttc ttgtgcttcc 240
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 aaatagcccc agctcgacct ccatcaagcc acctcttggt atgctagttt ggagcccaaa 360
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 acaccacgt caccctcc 438

<210> 15773
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-012-Q1-K1-A9

<400> 15773

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ctctacttgt aatgtcaagg aaagcaacac aggaaatgat gtgcatgggtg tgcctaaaga 180
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gtaatttgtg tcgtcttggg aaaggctcttg gtgttgattt ctttcattgc atgaaatgca 360
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<210> 15774
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B11

<400> 15774

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cggcaccggc gccgcggcca tccaccggca gccggcccgt gctggagccg tcttcgtcgt 180
cacctgcagg cggagctcct ccgcgaccgt ccgcgccgca gccgctgcca cggcggcggc 240
gccggctgcc gtagagctgc agaacaaggg ggtgtcgctg ccgacgtggg cggagttcga 300
gctcggggcg gcgccgtct actggaagac cagcagcggc cttccgccct cgccggggcga 360
ggggctgacc ctgttctaca acccgggcgc gacgaagatg gccccgaacg aggtgttcgg 420
cgt 423

<210> 15775
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-B12

<400> 15775

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tcataataaa aaattgcaat aattcagtga tcaatgggta atggagcaga actctcaact 180
tcatgattgg ctgttcgctt cgattaaagc caactggact gctgcagcta caatccatag 240
agataaaaca ctgtagaagc aatagaagcc ggtacggatt aaagccaagt gaacaggcta 300
agacctctct ctttctctga aaatgtacta ccaagaacct tccttatcta cttacaatga 360
cacctttcct ttcttcacct gcccgtagcg cggagctgcc tttgcccttc cgccgctgcc 420
tagatgtttc atttcattctt 440

<210> 15776

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H4

<400> 15776

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cgctggacgc ggacatgacg gtggacgagt tcaaggagtg gctgcggcgg ttcgacacgg 180
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acatcgacga cagcgaggtc gatggcctca tcgagttcgc gcagaagaac ctcggcctca 360
agatcgtcgc ctactgatct cacatggggc gcgggcgcgcg gcgggtcggg ggtgggacgc 420
actagctcgc catgagct 438

<210> 15777

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G1

<400> 15777

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cctccgggga cgaggttcag ttctcgggaga tcgacggcaa gatcatcggc ctctacttcg 180

cggcaaactg gtatccgaaa tgcgaggctt tcaccccggt gctggccgcg gcgtacgagc 240

agctcaagga gcgcggcgcc ggcttcgagg tcgtgctggt gtcgtgcgac gaggaccggc 300

cgtcgttcga gcggttccac ggaaccatgc cgtggccagc ggtgcctttc ggcgacctca 360

gctgcaagaa gcgcctcagc gagaggttcc aggtggaggg catcccgcgc ctggtggtgc 420

tc 422

<210> 15778

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G11

<400> 15778

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tggtgagcga ggcggtggcc aagtccggca cctcgcccct gcttcggcg atcaccttca 120

tcttggacaa ggtcgcaccg tttatcccca atgaggagcc caaggcggag ccggcggcgg 180

agggcacctt ccgggaagtc gccgtggagg agaagaagga ggaggccgag ccagctgcag 240

cgacggaggc tgcaccggcg ccggcagaga caccgtctga agaagccgtg gtagaagata 300

agaaggaaga atataataac gaagatgaag ataaac 336

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<211> 152

<212> DNA

<213> Zea mays

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<400> 15779

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gcagtagaag aaggccgcta ctgccttcgc ctcatcggtt tccaagcatg ctaaccccaa 120

gcaggggttc gtctgctgag ctgtcatTTT tc

152

<210> 15780

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G3

<400> 15780

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aatgaggatg agggaaagaa catgaaacaa ggaggaatga ctgaattaaa ggatgagaaa 180

tggggaggtg gatataatgg aggatatgga tatggaggtg ggtatgggtg tggatatgga 240

aaaccgggct atgggtgggtg atatgggtgga ggatacaggc ctaaatatgg caggggctac 300

aggaccggat atggatacgg tggcgggtat ggtggatgat acggtggc 348

<210> 15781

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G4

<400> 15781

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gtaacttata ctttctcgca aaccgtttca agagcacaaa gagcttatta agacgcttta 120

tctagcttat ttacttaaca tcctctaata aattattgac tgagtaaaaa tacatatgat 180

ggttaaattt caatcattgc ccatattgaa catccaaatt ttgttaacca gcaaccaagt 240

gaccaatgcc ttaaaagaaa atctgaatct ctatctgggt cataagcaag gggtcattca 300

actacattgg tgcaacctgc tctaggaaat cataatggga atggaggtgc acacaatgtc 360

cttcggatgg ctaacgttgt acatcgattc aagagcttag ttgaatcttt ggaaattgg 420

gttgtgctat c 431

<210> 15782

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G5

<400> 15782

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ggatatggacg ccgtccagaa ggcctcatg ttcgaagacg aatgcatttt ggtggacgag    180
caggacaatg ttgttggcca tgagtcaaag tacaactgcc atttgatgga aaagattgat    240
tctgagaatc tgctacatag ggcattcagt gtgttccttt tcaactcaaa atatgagctg    300
ctacttcagc aaaggctccg gacaaagggt acctttcctt tagtttggac caatacctgc    360
tgcagtcacc ctctgtaccg tgagtctgag cttatccagg agaactacct tgggtgtgaga    420
aatgcaacac agaggaagct actggatgag c                                     451

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<210> 15783

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G6

<400> 15783

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agcgtcttta cttcaaagcc tctcatagat tcttcacttg tgaaaaatac atatgttggc    180
ttaagttcag gcggtgcccc tattggacat ccaaattttg gtaaccagca accaagtgc    240
gaatgcctta aaagaaaatc tgaatctcta tctgggtcag aagcaagggg tcattcagct    300
gcattggtgc aacctgctct aggaaatcat aatgggagtg gaggtgcaca caagggcctt    360
cggatggcta acgttgtaca tcgattcaag agcttagttg aatctttgga aattgggtgt    420
gtgctatct                                     429

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<210> 15784

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G7

<400> 15784

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aaagatctca ctgaggccaa taatgatgat tatgtacaga acatcaaact attaagaatg 180
actgaattaa tggttcatat gtggtttact ggatataatg tacgatttgt atatatacct 240
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<210> 15785

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G9

<400> 15785

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gctgggtcgc ctgccagccc gacaccgca atcggatccg acgacaaggt gagaggggaag 120
agattgggct cactgttcac caagctggtc agccggctgt tcgccaagaa agtgatgcag 180
ctcctgatcg tgggactcta cgccctcaga tacgaccaca ctacctatag tccgacactt 240
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<210> 15786

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H10

<400> 15786

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tcaggttccg caggtccggc aaccagttcg tgggcatcgg cgccagcgac ggcattcatc 120
tcgcgacggc caccacgccg ggctgccgg agacgttcca gatagtgcgg tgccccttcg 180
acaagaacag ggtccggatc aaggcggcga acggctactt cgtccaggcg atagcgaccg 240
gcgaagtgat agcggactac ggcgagccca cgcggtggtc cgacttcgac gcgtcagtg 300

tcttgatgac caccgtcggg cagcaactgc aaggtgagta ccagctctgc aacggctacg 360
gcgccgacaa ggccgtgccg ctgctgatgg agcattggag cacgtacata atggaggacg 420

<210> 15787

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H11

<400> 15787

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ccacgcgggc ggccgccgga tgggtgctgtc caacacgggc ggcaacggcc aggaacttgt 180
tgccgactcg caccttctgc ccgttttcgt tttcttttat agggaaggca ccgtaatcaa 240

<210> 15788

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-H12

<400> 15788

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tgccgcgcgg cgcaggagcc gccgctccga tcgccttgaa aaaggtgcca attgttactg 180
attccagata taggtgttcc tgcgctggaa ctaactgcgc cgcgaccttc ctcagcaatc 240
ttatgctcat gtctcactct caacagatgg cgaatagtaa gaagcctcct ggccctcagg 300
tactcggagg cgccggctca ctgacaacgt accagacact agtcctggtc ctcacgttct 360
tggcatacac atgcttncac atgactcgga agatcccaag catagtcaag agcgc 415

<210> 15789

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H3

<400> 15789

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caagatgaac cttgcccaga gcataagaga cagattctgg catactactc cettgctggc 180
aggaggacag attgtcctcc atcagtaact ctgctttacc cggcattttg agtgtagata 240
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agtaaattggc ccctgttctt ccaattgatg aggacatgca gacgttccag tgcaaagaac 360
cccaaaggta agctttaagc aggacggcca gctctgaact gaggctagct gagaacaatc 420
atgaatacct gaaggcagca cttatgtcaa c 451

<210> 15790

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F8

<400> 15790

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gtgggttccc gtggagatga caacgatctg gagctgaacg cggagtccca cttactgagc 180
ttcgtgcagc ggttcggcaa gtccataaag gacgccgacg agcacgcgta ccggtgtgct 240
gttttcaagg ccaacctgcg ccgcgcgcgc cggcaccagc tgctggaccc gtcggcggag 300
cacggcgtca ctaagttctc cgacctcacg ccggcagagt tccgacggac ct 352

<210> 15791

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E3

<400> 15791

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atcgcgttgt tcttctctct tcgctcgctg tcgccgtcgc gattgccgcg gccgtctacg 120

cgaggagaccc tcttatccgg caggtgggttc cgggtgtaga tgacaactat ctggagctga 180
 acgcggagtc ccacttccctg agcttcgagc aacggttcgg caagtcctac aaggacgccg 240
 acgagcacgc gtaccgtctg tccgttttca aggccaacct gcgccgcgcg cgccggcacc 300
 agctgctgga cccgtcggcg gagcacggcg tcactaagtt ctacgacctt acgccagcag 360
 aatttcgtct gacctacc 378

<210> 15792

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E4

<400> 15792

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 cgtcgacggg ggcgagcctc tctgtcccgg tgacgacgac gaccttcgcg gcggcgggcg 180
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 cgccgacgga gatctccgac aaggtgtctg agagcatcaa gcaagcggag gagacttgcg 360
 cggacgacca gaatggcgac gccgagtgcg cggcgggcgt agacgaggtg gatgagctca 420
 tcgccacggg cagccacgcc cgcgaca 447

<210> 15793

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-E5

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tttgcttgat aaatctaata cagaggtaat tctggagctt gaggataaag ttcattgatgg 240
 tgatgacaaa nagacaaaaa ctgttgtaaa aaaggtgggt tcaccattcc caactaaagc 300
 ggnctttctct gaggaatcct ttgaagcacg gg 332

<210> 15794

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E6

<400> 15794

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 cacttgagacg ttaagggtgt gcaccattta caagccatgc taatgatatg aagggtgacga 180
 ttattagggg tggtcactag tacagtcacg ctgctatata tacccttttc ccccatgga 240
 gctagctgat agacatgcct tcct 264

<210> 15795

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-E7

<400> 15795

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 cgggtggagat gacaacgacg tggagctgaa cgcggagtcc cacttcctga gcttcgtgca 180
 gcggttcggc aagtcctaca aggacgccga cgagcacgcg taccggctgt ccgttttcaa 240
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 cactaagttc tccgacctca cgccggcaga gttccgccgg acctacctcg gcctccgcaa 360
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 caccgatggt ctccccgacg atttcgactg g 451

<210> 15796
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-011-Q1-K1-E8

 <400> 15796

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 ccgtccaagg taatccacat ccgcaacgtc gggcacgaga ttgccgagtc tgatctcctt 180
 cagctgctgc agccgttcgg catggtctcc aagatcgtca tgttgctgct caagaaccaa 240
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 ctttttagtta ctatccacca tatgatctat 450

<210> 15797
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-011-Q1-K1-F1

 <400> 15797

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 gcggcaggat gaatgagatc gacgggttca tcgacgagtg caacaacaac ctggacctca 300
 agaaccgctg cggcgtcggg atcgtgccgt acgaactgct gaagcaccta tctaagcctg 360
 ca 362

<210> 15798
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F10

<400> 15798

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tccgcggcct catcgccgag aagaattgcg ccccgctcat gtcgcgcctc gcatggcact 180
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ccatcaagga gcagttcccc atcctatcct acgctgactt ctaccagctt gctggagtcg 360
tggcagtcga ggtaaccggc ggacctgatg tccccctcca ccttgga 408

<210> 15799

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F11

<400> 15799

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acgcaccttt gtttcggcac acatcgcaag tgactaccgg tcaagagaca ggtgtcgcctg 240
atcacttacc ttcgaggtaa tcgttcaatg atgacatcaa accttcaca aatcctccat 300
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<210> 15800

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F12

<400> 15800

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ctgtacggca cggagcgggg cctgcgggcg ttcagcgagt cacgagccaa agtgctggag 360
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<210> 15801

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F2

<400> 15801

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ctacttacac tactgcacca gtcagtatgt tctctaacat cagttatcat gattagcagg 240
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gagcttacca ctgaccagag ctctcatgga aggaattctg atcatgggtt cgaacctaac 420
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<210> 15802

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F3

<400> 15802

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gagattggca aggagattga ggagaagaag gcagaactgg agcccaaggt tgcggaggct 240
tatgaagcat ctctcctga ggtcaaggct ctgttcaagg ataagaagcc agtcaagatc 300
agcaagaaga actcgactgc agttaccaag ttcctcgatg agctggctaa gattgacttc 360
cctggagcca aggtggtgag cgaggcgggtg gccaaagtccg gcgcctcgcc cctgtctccg 420
gcgatcacct tcattcttga caaggtcgca ccgt 454

<210> 15803
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-011-Q1-K1-F4

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acccgcgcaa gcgccacctc gacgcctccc cccttccccg ccacttccac ggccccgaga 180
gccaaacccg cctaagccag cgccaccgcc gccggttctt cttgccgcta ccaccgaagg 240
cgcggtcctt cgcttccgac atgggaaatc acatgtccag tgccttcggt tggcccagtg 300
atgacgggcg ggggctctc tgttctgga tcggcaaggc gcggggtctc acggtggcca 360
tggatgtgga ggcgngacg ggactgcatt tgggtggaccg gc 402

<210> 15804
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-F6

<400> 15804
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aaccgcgca agcgccacct ttaagcctcc ccccttcccc gccacttcca cggccccgag 180
agccaaaccc gcctaagcca gcgccaccgt cgccggttct tcttgccgct accaccgaag 240

gcgcggtcct tcgcttccga catgggaaat cacatgttca gtgccttcgg ttggcccagt 300
gatgaccggc gggggctcct ctgttgctgg atcggaagg ctcgggtct caggtggcc 360
atggatg 367

<210> 15805
<211> 442
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-011-Q1-K1-F7
<400> 15805

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agagggagat ggccaggagg aacatcggag tcgcagtga cttctcgtcg tgcagcaaag 120
cggctttgcg gtgggcgtcg acgaaccttg ccaggaacgg cgacaggctc atactcatcc 180
acgtgaacag ctctgccag aacgagcggg gcgcggttca tctctgggag cagagtgggt 240
ccccattgat ccctctggcc gagttttcag acgtcgccag gacatacggg gtgtcaccgg 300
acaaggagac gatcgagatc ctnactcaag cggcaaacca tagagggatc gaagtctttg 360
caaaggtgtt ctacggcgac ccagcanaga agctctacga agcagccgac ctggtcccg 420
ttagctgcat ggtcgtcggg ag 442

<210> 15806
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-011-Q1-K1-E2
<400> 15806

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gcagtagtac catggttcac aggcagtga aagcttctta agcatacaaa cgaaggaaga 120
tagacacaac ctaacaaggc gctgccagtt ttctccacta caaattattg accagacttg 180
gacgttaggg tgtcgcacca ttgacaagcc atgcgaatga gatgaagggtg atgatgatga 240
ggggtgggtca cttgtacagt catcctgcta tatatgcctt tcgccccca tggagctagc 300
tgatagacat gccgtcctag tttgctcgtg tgtacacagc tgggagggag ctattatatt 360

tagtggatcg ggtcagggtt gaacttgaga gactccttcc agatgagctc ctttatagct 420
tcttcggtga gcgatggctg ct 442

<210> 15807
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C7

<400> 15807

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ctgactggtc agtggaaatct gtatgccac aatcctgatt cgagtactca tttatttggt 180
accactcaag gagctggtag tgccattgct acctcttttg gtggactcca tccacttaca 240
catagtttgt ggctgaccga tattgctcat catcatgcta tctatagcgt ctattaaggt 300
catggccatg atatatctat cgttctaacc ttctaatacgt atacagtatg atagttcttt 360
tacaaacgca ctttctcgct ggaatgcaat atttgctttc tattaca 407

<210> 15808
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C9

<400> 15808

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caccggcacc acgccgatcg cgtcagcggg ggatctgcat ctgctgctgc tcgcgccgct 120
agccggggcg agtgacagca tgtccatcgt catctacggc gagcggagct aggaggatgc 180
tctacggatg tactctcagt ggatttctgc gcacggtcgg acctacaacg ctactaatga 240
agaagagctc tattgagagg agctcatgaa caaaatcggg tacttaaaca cttaaaatgc 300
attcgagaac gcggtagtag aaagctaata ataaaacatc aactgggtta atatcttaat 360
ttg 363

<210> 15809
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-D10

<400> 15809

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 ctctgtgcctt atcgagcatc gtatcccatc ttaaagttgg tttattcggc agcagcaaata 120
 gctactcatt atagggattt cgacaaaacg aatttattca tcactaaagc cgaagtcagt 180
 aggagtacta ttatgaaaaa attcagacct cgagctcgag gacgtagtta ttctataaaa 240
 aaaacgatgt gtaatataac aattgtacta aatatagtaa agaaatcaaa ataatcttta 300
 gatcaatcta agatttcgat tcccagtaaa aaaaaaagaa atataataga aaaatatggg 360
 acaaaaaata aatccactcg gtttcagact tgggtacaacc canaatcacc attccttttg 420
 gtctgcac 428

<210> 15810
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D12

<400> 15810

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 ggggcgtcgg cgtcggcggc ccccgcgggc ggggccaaga ccatcgcggt cggggaccgg 120
 ctccctgacg cgacgtcttc ctacttcgac acgtcctccc ccgacggcga gctgaagacg 180
 gtgacgggtc gcgacctcac cgcgggggaag aaggtggtgc tcttcgccgt gcccggcg 240
 ttcacgcca cctgcacca gaagcacctc ccgggggttcg tggccaaggc cggggagctc 300
 cgcgccaagg gcgtcgacac cgtggcctgc gtctccgtca acgacgcctt cgtgatgcgc 360
 gcgtggaagg agagtctggg gatcggggac gaggtgctgc tcctgtcgga cg 412

<210> 15811
 <211> 374
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D2

<400> 15811

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atggtgaatg gagcgcaagg tagcgattct tctgcttggt ggcgtctatg tttaggataa 120

catggctgctg ttgcttggtg cctagaacac cctcaagatc attcccttca agcttccgctc 180

cgttggccct ttatatgtcc tctttctcat gaaatcaatt tttatttgct gtattttattt 240

tcacttcctt atggatattc gcatttttca cttctatttt aatgagccct ttgtttattct 300

tcactaattc tccttctttt ttcaagatat tagcttcttt tttaatcacc tttttttatc 360

caaccttttg ttct 374

<210> 15812

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-D3

<400> 15812

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gggctccggc ggcaactccc tcccgtccgt cggccccgac gggcagaagc ggcgcgtgtg 120

ctactttctac gaccgggatg tgggcaacta ctactacggg cagggccatc cgatgaagcc 180

gcaccgcac cggatgacgc actcgctgct ggcgcgctac ggctcctca accagatgcc 240

aggtgtaccg cccaaccggg cccgcgaccg cgacctctgc cgcttccacg ccgacgacta 300

catcaacttc ctgcgctccg tcacgcggga aacgcagcag gaccagatcc gnetgctcaa 360

gcgcttcaac gtccgcgagg actgccccgt cttcgacggc ctctacagct tctgccagac 420

ctatgcgggc gcctnctgctg gc 442

<210> 15813

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-D4

<400> 15813

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atggacggcg acggaggagg cgctgggtgcg ctgcaccacc acacgcgctc acccgaggac 120
gtcttccgcy atttccgcgc gcgcagagcc ggcacgtca aggcgctcac cacggatgtg 180
gagaagttct atcagcagtg cgatccagag aaagagaact tgtgccttta tggtttgcca 240
aatgagactt gggaggtcac tcttccagct gaggaagtac ctctgagct tccagaacca 300
gcactgggga taaactttgc ccgtgatgga atggtcgaaa aagactggtt gtctctagtt 360
gcagttcata gtgatgcatg gtcctgtct gttgcattct attttggagc tcgttntgga 420
tttgacanag atgccaggag aaggctc 447

<210> 15814

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D5

<400> 15814

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caggaccagg ccgcagaggg agaggaagct cggcgccagg taccacgccg ccgacaacga 120
ggacctgccg gagtccgtcg actggagggc caagggcgcc gtcgccgagg tcaaggacca 180
gggcagctgc gggagctggt gggctttctc aacaatagca gctgtggaag gcatcaacca 240
gattgttaca ggcgacttga tctccttgtc tgaacaagag cttgtcgact gtgacacttc 300
gtacaatcag gggtgcaatg gaggtctgat ggactatgca tttgagttca tcatcaacaa 360
tgggcggaat cgacaccgag aaagattacc cttacaaggg cacggacgga cggtgtgatg 420
tcaacaggaa aaacg 435

<210> 15815

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D6

<400> 15815

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aagggacacg ccagccgggt agtgaccact accaaggagg cgctgggtgcg ctagaccacc 120

acacgcgctc acccgaggac gtcttccgac gatttccgcg cgcgccgagc cgacatcgtc 180

aaggcgctca ccacggatgt ggacaagttc tatcagcagt gctatccaga taaagagaac 240

ttgtgccttt atggattgcc aaatgagact tgtgaggtca ctcttacagc tgaggaagta 300

ccttctgagc ttccataacc agcactgtag ataaactttg cccgtgatgg aatggtcgaa 360

taagactggg tgtctctagt tgcagttcat agtgatgcat ggctcctgtc tgttgcattc 420

ta 422

<210> 15816

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-D8

<400> 15816

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cgtcggccgc cgcggttgcc gccgccgtcg acgcggagga cccgctgac cggcaggtgg 120

ttccccggtg agatgacaac gatctggagc tgaacgcgga gtcccacttc ctgagcttcg 180

tgcagcgggt cggaagtcc tacaaggacg ccgacgagca cgcgtaccgg ctgtccgttt 240

tcaaggccaa cctgcgccgc gcgcgccggc accagctgct ggaccgcgtc gccggagcacg 300

gcgtcactaa gttctccgac ctcacgccgg cagagtccg ccggacctac ctccggcctcc 360

gcaagtcccg gcgcgtctc ctcagagaac tcgngagtc ggcgcacgag gcgcccgtgc 420

tccccaccga tggctctccc gacgatt 447

<210> 15817

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-E1

<400> 15817

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cacctccat tcgcccgcga ccgcgacccg accacgggccc gcacctacgc gcgcggcgca 180

caggacgaca agtgccctccc cgtccagtag ctcgaggcga tccggggcct gcaggccgcg 240

gggttcgctc ccgcccgcac catccacatc tcgcttgctc ccgacgagga gatcggtggc 300

gcggatgggt tcgacaagtt cgcgcgatcg gaggagtcc gcgccctcaa catcggtgtt 360

atgctcgacg aggnncaggc gtcgcccacg gacgtgttca gatttttcta cgcggacagg 420

ctggtgtgga ggctcgtcgt 440

<210> 15818

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E11

<400> 15818

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aaaatgttct ctggctttta gtctctgtag attatacctt ggcaatgtag gtattcaagt 120

gctgtgacca cttctgcagc atagaacctg accgcaccc ccttcagaac cttcataggt 180

tgcctatcaa ggagcataaa gagttcccca ccagcacaat agtcaacaat aagacatata 240

tgtgtctttg tctgaaatga tgcatacaat gtcggaagga atgggtggc caacatatca 300

aggatttgct gttcagcgt agctctatgg accttgcttc ggttaagcat gacactttta 360

tccatagctt tcatggcaaa gtattcacct gtgccaagca acttcaccaa atgggacactg 420

ccagtatcac caga 434

<210> 15819

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-E12

<400> 15819

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gaggggacga tgggtggcctg cagctgctg cttaccgctg gtctttggat cttttgagggc 120
atgctgaatg tggatgccgt ttctgcagca attcttggcc taacaatcct cttaatctca 180
agggttgtca catggaaaga atgtttggca gaatctgtgg cgtgggatac cttacatgg 240
tttgcagcac ttatagcaat ggctggctac cttaacaaaa tcgggctgat ctcttgggtc 300
aatgagactg ttgtgaaatt tgttgggaagg cttggcatgt catggcaact ctcattcggg 360
gtgctgggtgc ttctgtactt ttacttgcac 390

<210> 15820

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B2

<400> 15820

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ttccgatcag aagaaaccag taccgaagga gcagagagca aaggcagctg gcaactcctcc 120
aaaaccaaag gccaaagata tgaaggggag tcaagagaaa aagccacaac cacaacagaa 180
agtgcctcct ccggttagcg catgaagctt cctgctgcga aaatggttac tgatcatgta 240
agatacatct tgtgaagtta tctcatgttc aacactcatg cttgtatggt tttgatattt 300
ggtttatggg gttatgggac gaggggtgcc caatctagaa tgtgcttggg ttgagcgatt 360
gcgcacgcac aacataattg gtgagaattg gttttg 396

<210> 15821

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B4

<400> 15821

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aggataagat agcaaataata tggccatcat actcgtacga gcagcgtcgc cggggctctc 120
cgccgccgac agcatcagcc accaggggac tctccagtgc tccaccctgc tcaagacgaa 180

gaggccggcg gcgcgccggt ggatgccctg ctcgctcctt ggctccacc cgtgggaggc 240
 tggccgtccc tccccgcgcg tctactccag cctcgccgtc aaccgcggcg gagaggccgt 300
 cgtctcgtcc gagcagaagg tctacgacgt cgtgctcaag caagccgat tgctcaaacg 360
 ccagctgctc acgccggtcc tcgacgccag gcccaggac atggacatgc cagcgaacgg 420
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<210> 15822

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B5

<400> 15822

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 cgggagtgcg ctcgtgaagg tggcgtgct cgcgggcgcg gggctctacg ccgtcctcaa 180
 cagcttctac aacgtcgagg gcggacaccg cgccatcgtc ttcaaccgcc tcgaggggat 240
 caaggacaag gtgtaccccg aaggaactca cctgatgatc ccgtggatcg aaaggccgat 300
 catctacgac gtccgcgccc gacccaacct cgtcgagagc acctccggaa gccgcgacct 360
 ccagatggtg agaattggtc ttcgtgtcct tactcgacc atgccagacc agctacctaa 420
 aatctacagg aacttg 436

<210> 15823

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B6

<400> 15823

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 ttcaattact gtgtgataga tgaagttgat tcaatcctta ttgatgaagc aagaacacct 180
 cttataatat caggcctagc tgaaaagcca agtgatcggg attacaaagc agcaaaaata 240

gctgaagctt ttgagcgaga cattcattac acggtggatg aaaagcagag aaacgtttta 300
 cttacagaag aaggttatgc tgatgctgaa gaaatactgg acatagatga tctgtacgat 360
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 aaagatgtc 429

<210> 15824
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-011-Q1-K1-B7
 <400> 15824

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 cggcgtcttc gaccgccgcc aacccacccc agctctgccg gtcccgcgct gcgctgggca 120
 agccagtga ggggcttggc ctggggatgg ggcggtagcg cgcaagccag cggagcatca 180
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<210> 15825
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-011-Q1-K1-B8
 <400> 15825

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 ccaaggatac tgatatcttg gcagcattcc gagtaactcc tcagctcggg gttccgcctg 180
 aagaagcagg agctgcagta gctgcggaat cttctactgg tacatggaca actgttttga 240
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ctggggaccc agatcaatat atctgttatg tagcttatcc attagaccta tttgaagagg 360
gtttctgttac taacatgttt acttccattg tgggtaacgt atttggtttc aaagccttac 420
gcgctctacg tttggaggat ctacgaattc 450

<210> 15826

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B9

<400> 15826

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gtttctcctc gtggccgtcg cgctggcctg cctcggctcc gcggcagcgc atcaagccgg 180
atctggagag ggctacacga tcgctggccg cgtcaagatc gatggcatga gcgtgaaggg 240
ctttggtctt gcaacaaaga catcaaacac aaaagtata cttaatggcg gccagagggg 300
tacatttgcc aggccagacg gctactttgc attccacaac gtgccagctg gaactcatct 360
gattgaggtc tcctcaattg gttacttctt ttccccagtt cgagtagata tcagtgaag 420

<210> 15827

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C1

<400> 15827

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gagcggcctc cgctgcgacg gcaacggcgt gggagggcca tggcggcccc cgcgctcgcc 180
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ccatcttgcc ctgatggttg gcaaggcggc cctgttcaga acagatgctt catgtacata 300
tcagcctccc tttcttgga tagatccgag gctgtctgcc ataactacag cgggcatctt 360
gctgcagtat catcagtcca ggagctaaac ttcgtgaagt ctctctgtgg atcatcatcc 420

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453

<210> 15828

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C10

<400> 15828

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cctggggaga atacaacacc acctttggag tctcatgcac ggttttgtct ctacttttagc 120

atctgctgat cttagactaa ctcatattatt aactgatctg tatctactgg aagccattc 180

tgaagttgat agattggcta ctagatttta ttaaagccaa ctggactgtt gcaactacaa 240

ttcatagaga taaaacactg tatatgcaat ttaaaccggg acggatttaa gcctaataa 300

caggcttaga cctttatttt tctgttaaaa atgtactact aataacctac atatctacat 360

acaattacac ctcttctttt c 381

<210> 15829

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-C12

<400> 15829

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cctgcgctcc tccgacacct gggtcgccga gtacaggaag tggatggaca gggcgggcca 120

cggcatgccc tactacttcg gccacagcac cctgtcgccg ccgcccgtgc cggccgtcgt 180

ggagcaggcg cccgcagggg ccgtcgcggg gatctcgcc tcgttcccgg ccaagggcgg 240

cgtcggcatg gtgcacgcgc ccaacccgac caacaggtac ttccgccacg tcgtgcaactg 300

caagggttgc agggcaaccg tcaaaaagta cacctcgttg aagaccgtgt tcgcggccct 360

cgcggcggcg gccctatcgg ccgncatcct ggcg 394

<210> 15830

<211> 448

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-011-Q1-K1-C2

 <400> 15830

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 aggctgcggt tactgaccac agctttcgac cctttccagt ggagggaacg gggtttagcga 120
 gcggcctccg ttgcgacggc aacggcgtgg gagggccatg gcggcccccg cgctcgccctt 180
 ccccatgttg ctggctgcct cactgctctc cgtcgccgat cctgcgctgg ctggaagccc 240
 atcttgcctt gatggttggc aaggcggccc tgttcagaac agatgcttca tgtacatata 300
 agcctccctt tcttgggata gatccgaggc tgtctgccat aactacagcg ggcattctgc 360
 tgcagtatca tcagtccagg agctaaactt cgtgaagtct ctctgtggat catcatccac 420
 aggatgctgg gttggagggc atcactac 448

<210> 15831
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-B12

 <400> 15831

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 ggcggtctcc tccacggcga tggccggtac ccccatcaag gtgggctcct tcggcgaggg 120
 ccgcatcacc atgcgcaaga ccgtgggcaa gcccaagggtg gcggcgctccg gcagccccctg 180
 gtacggcccc gaccgcgtca agtacctcgg ccccttctcc ggcgagcccc cgagctacct 240
 caccggcgag ttccccggcg actacggctg ggacaccggc gggctgtccg ccgacccccga 300
 gaccttcgcc aagaaccgcg agctggaagt gatccactcc cgatgggcca tgctcggcgc 360
 gctcggctgc gtcttncccg agctgctctc ccgcaacggc gtcaagttct gcgaggccgt 420
 ctggttc 427

<210> 15832
 <211> 426
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H7

<400> 15832

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catcacggtg cgcacacctg ccacgcaggg cacctgccag gtcccccttct cctacacgca 120

ggaggatatt ttgactaccg gggagaagaa ggtcaccaag tatgacgatg gcatcttccg 180

tggagtcaac agctttggtt tcaagtccga ggtcacgag aggaagatca atggcgaatg 240

agacgatgca ccacatgtca tatctatgga tcggagacac tgtgccaaag tctgcttata 300

tatctatata tgcataata attcagccac gtacgctacc atctgcatat atgtcagtat 360

aggtggcgca tgtattgctt ttaataattg gtgtcatcta agccatgcaa gcatgtgtgc 420

tttata 426

<210> 15833

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H8

<400> 15833

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gcccgggtca attaaggatt ggatgcgtat gtaggcctgt tgatcaagga ctatcttata 120

tagccacatg ccctgagaat gggacagggg aagcttgaac ccggctattc catacatgaa 180

aagacaatcg cgcactgggc gtggagagat ggcgagagtg gcacgtaccc tcctggcaac 240

ggatcgctta aaagggttgg tgtactctcg ggtggcgcgg acctgttcat gcagtggagg 300

atccgtggga atagtagaca tcaaggttta cgagaaacat atgtcgtgtg gttagagatc 360

cttagctgag taaatcgatt cggatcgccg ttatatcccc ggacagtgga gacttgagct 420

ccgacctaca accta 435

<210> 15834

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H9

<400> 15834

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agaaatcaag cactccagca ttatcctcca cttgcagtag tatccagcag gggcagtgct 120
cacatttcaa agatattcag ggtcatttat catctaaagg gcacaaagtc ccaaccattt 180
actttggaag aggtcgggtc tcattgttgc ctagtgggtc atcagcagat ccaactcctgc 240
ttaatttatg taaaacgatg gagggccaga gccagcatag ctccgaagat aatatatcat 300
ctggtcgggt tcagctaata aaggaggatt tgataaatgc aacggttgac gcgagtgaca 360
tttttgagtc atttgatagt tgcccatatt atctaagtga tcataacaaa tgtgccctca 420
tgtcatca 428

<210> 15835

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A1

<400> 15835

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gtagctggca ttcttacct tgatacagtg gcagactatc ttccgagaag gggacccctg 120
aagcagagaa ggacaggtat tgcgtatata gcaaacgtcg cggcgcgaa ggaggagcga 180
cggaaaggga tcgcgaagat gttggtccaa gaagcagagg ctcgggcaag gagctgggga 240
tgccggctga tggcactgca ctgcgacgta aacaacgtgg ccgcgctacg cctgtacaga 300
aaccaaggct tcaagtgcac acgagtgccg gaaggagcta aatggcccga acccaagata 360
gctaaaggag cggagtacaa cttcatgatg aagctagtgc ccaaggcttg agtcttgaac 420
cttataagat ctgactaggg aaaaa 445

<210> 15836

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A11

<400> 15836

ctggcgcgga ggacgcacca gctggacggc catcgggatc cggcggatgt ccagctggcg 60

cggaggacgc accgtacgat cgtcgtcaac atcgtcttct cggtgatcac caagcttgcg 120

atcgtcgggc tcgcgctcgc cgggcatccg ctcactctggg cagccgtcct cgcggacgctc 180

tgcacatgca tgctggtgat catgtacagc atgctgctgc tgagatcgga ctggaacggg 240

cgccggaagg tgaagaagtg ctgtgcctcg tcgcaacatg ggtcacactc acacgccagg 300

aagaagcatt gtgtctccca ccaactgttca gatggcccgt gcaacaagtt gacggcaggc 360

tgtttccagg aatcgccgac tgctggtaag catgccttgc atgatcat 408

<210> 15837

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A12

<400> 15837

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cgtgaacgag aagattggcg tcaaggaatc cgacacgggt ctgcgcctc cccatctttg 120

ggatgttgcc gccgaccggc aacgaatggc cgaagaacag ccgctccaag tggctcgttg 180

cacaaagatt attcaggatg agaaagattc cgacaagagc aaatatgtga tcaacgtgaa 240

acagatcgcc aagtctgtag tgaacctggg agagcgcgtc agcccaacgg atatcgaaga 300

aggcatgcca gttggtgtcg accggaacaa gtaccaaatt atgctaccac tcccgcccaa 360

aatcgatccc agtgttacga tgatgacggt cgaggacaag cccgatgtca cttatggtga 420

cgtgggt 427

<210> 15838

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-A2

<400> 15838

gccaccatcg accttcaagt ctgcgtacgt agcagtgcaa taaaaaagc agccgcaatg 60

gcgagcagca ccatggccct ctctccacg gccttcgccg gcaaggccgt gaacgtgccg 120
tcgtcgtccg ccttcggcga ggcccgcgtg acgatgcgca agacggcggg gaaggccaag 180
ccggcggcgg cgtccgggag cccgtggtac ggccccgacc gcgtgctgta cctgggcca 240
ctgtccggcg aggccgncga gctacctgac gggcgagttc ccgggcgact acggctggga 300
caccgcgng ctgtcggcg acccgagac gttcgccaag aaccgggagc tggaggtgat 360
ccactcccgc tgggccatgc tgggcgcgt cggtgcgtc ttcccggagc tgctcggccg 420
caacggcgtc aagttcggc 439

<210> 15839
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-011-Q1-K1-A3
<400> 15839

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aaaagagcaa aaccataaaa ataatactcc acagccttca ccgtctagga cattaacgtt 120
ccgtcaacgt aacccttttag ctattccctc ttgaccatgc acaacacagc tcatgaacgc 180
caagccggcc ttacaatccg gtaaccogtg atacgtttcc cacctcaagc tgtacctggg 240
cccactgtct ttcgagcttg gcgagctacc tgacaaacga cttcccggac gactactgct 300
aatacaccca catgctgaat gtcgaccogg agacgtttct caataaccaa tagcttgaag 360
tgateccactc tcgatgggtc atgctg 386

<210> 15840
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-011-Q1-K1-A4
<400> 15840

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cccgctagcc ctaggccagc cccccgagat ctgctccgcg cgagcagcca tggcggagac 120
gctcgacatg accctcgatg acatcatcaa gaacaacagg acgagtaacc cctcctccgg 180

cggggcccga cgcagccgcc gcggattcgc ccctggcggc ggcagccgcg gagtccggcc 240
 gaccaggcgc tccttcaaga gggctgggaa caggcatgcg ccctaccagc ccgcgaaggc 300
 ccctgacgct gcgtggcagc acgacatgta ccctgcggtc gccgcaagaa gccggcggcg 360
 gccggagggg ctccggcgtc gagacgggca ccaagctcta catcttccac cttggaactt 420
 ggggtttcga acgacgatat caaggag 447

<210> 15841
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-A6

<400> 15841
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 cagccccccg agatctgctc cgccgcgagca gccatggcgg agacgctcga catgaccctc 120
 gatgacatca tcaagaacaa caagaagagt aaccctcct ccggcggggc ccgccgcagc 180
 cgccggcggat ccgcccttg cgccggcagc ggcgggggtc ggccgaccag gcgctccttc 240
 aagagggctg ggaacaggca ggcgccctac cagccgncga aggccctga cgctgcgtgg 300
 cagcacgaca tgtacctgc ggtcgcgcga ggaggcggcg gcggcgggag ggtctcggcg 360
 ctcgagacgg gcaccaagct ctacatctcc aacctggact ntgggggttc gaacgacgat 420
 atcaaggagc tggctcttga gctaggtgat ctg 453

<210> 15842
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-011-Q1-K1-A7

<400> 15842
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 tggttgtact cgccgaagta tccctaacag tcaccgcatg agcgtccaac tcatgattaa 120
 cagactcaaa cccaatccgc cctgttaccg accgcgcggc ctgagagctc gagtacacgg 180

tcttcgccgc gctagggcgc acccgcgacg cactacgcta tgcacgctta ggtctgagat 240
acggcaagag ctataacagc ccggaaaagg tccacacgct gctcaggat 289

<210> 15843
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A8

<400> 15843

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tattgttagc aaaatgatga tgcatagaaga gcttcaggct agctggcacc agccaacaaa 120
gtgcaccgtg tttcacagcc tggatcaaac caggcttcag gagctactct tccagggttg 180
agaaaaaata tcggctcctg tggagacaaa cgagagggca tacgagttaa gaactggtgg 240
tactcttgaa gggctaccgt ccaggcgcat gggcgaggct caggattcat ccaagtggca 300
ggagagcttt gtcgcatcac agggggcgga ggggtggtgg aaccggtttg gatactccgg 360
tagaagtgca gcatctggtc aaagtgggtg actccagagg ggcaaggga atcatgtttc 420
ccgcggtgga tacggtggca atacacgatt tt 452

<210> 15844
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-011-Q1-K1-B1

<400> 15844

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cgagatggcc ccacgccgc tgcctgctct cgccgtctc gccctcgcgg ccaccgccgc 120
cggggccaac tccggcttcg cggactcgaa cccgatccgc cccgtcaccg accgcgcggc 180
ctccgcgtc gagtccacgg tcttcgccgc gctcggccgc acccgcgacg cgtccgctt 240
cgcacgcttc gctgtgaggt acggcaagag ctacgagagc gcggcgagg tccacaaggc 300
gttcaggatc ttctccgaga gtctccagct cgtccgctc accaatcgga aaggcctctc 360
ctaccgncct cgcatacaac gcttcgcgga catgagctgg gaggagttcc gtgcgaccgc 420

gctcggcgc

429

<210> 15845
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-011-Q1-K1-B10

<400> 15845

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tgctgctaag aagcagcgag caagtccaat ggcaaaacag ccagcaggga tcaagaaggt 120
tagcggaact cggggaaaga aaaaacaaaa ggtgggagaa gatgaaatcg aagagctctc 180
aagttcctcc caggataacg acgcagatga tgatagtac gaggactggg ccgaataatg 240
cgatggtaca gacgacggat aggttggggc gttggggaag catatgcata attgatgtgc 300
ggctgaagag aaggatggat tgggggatgg cacagaaact gcctgttttc atggactggg 360
ttggctggtc atgtctgacg acggatctag aatatggaat atcctgatct gntgtcaagc 420
tg 422

<210> 15846
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-B11

<400> 15846

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tggcggcaac cggaatgtcc cctccccct cgcccgcaat aactcgccac atccatgctc 120
gtcgttcttg tgctgctgct tcttgtccc tccgcccgtc gggcttcttg gggcgcgtcg 180
tgctggccgc ggtgccagtg gccgtggacg ccacccggcg ccgcccgtc tccgtgtcgg 240
tgccgatggc ctgggacggg ccgctctcgt cgggtgcgct catcatgcag agcaggaacg 300
cgaagctgag cgagaagctc aaggagcaca tcgaggacaa agtgggtcgg gcggtgtcca 360
agcactgcc a cctgggtccg gaggtggacg tgcgcc 396

<210> 15847
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H4

<400> 15847

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 ttgccacccg cgaagcgaag agaggatgcc agcggctatc gcactgtatc aggcagtgtc 120
 ttgcctgtgt agttttgtac tgaagttgtg aacgattagc ttcatttgtt ctgttttaaac 180
 caccgtcact ttaattcatc gcgttcggct gcacgtgggc gttgatgacg acacgatcag 240
 aaaccgttga tgacaacatg atcagaagtt gtgaaaaaaaa aactgtcatg caatggaa 298

<210> 15848
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F6

<400> 15848

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 tgttgetcgc ttgtttctgg gtccctgtcaa catgtctcct gctacttgat gcttcctcgc 120
 atggactgtt aagaatcaac ctgaacaaga agagactgga caatgaagct ttgactgctg 180
 ctaaattggc gaagaaggag agccaccttc gaaggctctg ggggtgctgac cagtatctca 240
 gtgcctcaac tgatgacata gtccctttgg acaactacct ggacaccag tactttggac 300
 agatcagcat cggcacgcca ccacagaact tcacagtgat attcgacact ggaagctcca 360
 acttgtgggt tcctcatcc aagtgtact ttctgatagc gtgctactta caccataaat 420
 acaagtcaac c 431

<210> 15849
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F7

<400> 15849

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ggcaaggcag atctagggcg atcatggctt acgtcgagag aggtgttgtg aaagacaaat 120

ggactatatg gcgactgagc ataatctcag acttcttctg ggccattgtg agctatatca 180

gaatcttctt tgacacactg ttctcattgg acaaaactga caacttcaag aaagggtatg 240

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<210> 15850

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F8

<400> 15850

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acttcgcgcg ggagcgcac cccgagcgcg tgggtgcacgc gcgcggggcc tccgccaaagg 120

gcttcttctga gtgcacccac gacgtgacgt cgctgacgtg cgccgacttc ctgcgcgcgc 180

ccggcggtgcg gacgcccgtg atcgtgcgct tctcgacggt gatccacgag cgggggtccc 240

cggagacgat ccgcgaccgc gcgcgggttcg ccgtgaagtt ctacaccgc gagggcaact 300

gggacctgct gggcaacaac ttccccgtct tcttcatccg cgacggcatc aagttccccg 360

acgtgatcca cgcgttcaag cccaaccgtt ggtcgcacgt gcaggagtac tggcgcgtgt 420

tcgacttctt g 431

<210> 15851

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F9

<400> 15851

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agcccgccgg tcgtccacgc catggccacc caatatgcgc ggctctccct gccatgccgc 120

ctgccctcgc cgctccctcc gccggtgccg acgacgaccc gccggtgcc gcgcgccgcg 180

gcggcgccat gcagcggcgt acaccttccc gcggtgccc cgcgtcgggtg cggcggtcac 240
gcgcgcccgc gggccgtgcc ggccctcgcgc ctccgaggtc gaagtgcata aacagggtggc 300
tgaagctgac catgtggtgg acagcaacat gctgccctac tgcagtcata accgcaagtg 360
agaaaatcag catcga 376

<210> 15852
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G1

<400> 15852

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gccaaagcca aaaggcatta ccgccgcgac aactatggca gcctcgtcc aagccgtggc 120
cacctgatg caagcggcct agatcggcgg tcgggcgccc tt 162

<210> 15853
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G4

<400> 15853

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cgccggcgac gactacgaca gcggctacaa cagcaagtcc ggcaactgatg actacggccg 120
tggcgaaggt ggctacaaca agtcgggcgg cgatgacgac tacggccgca gcggcggcga 180
tgggtacggc aggtccggcg gcgacgacta cggccgtggc accggcggcg gtggctacaa 240
caagtccggc ggccggcgatg actacggccg tagcggcggc gacgactacc ggcgtggcac 300
cgcccggtggc gggtgta 315

<210> 15854
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G5

<400> 15854

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gagagagaga tcgagaggta tacgtaggcc cgccggcaac taactaacat gtcgtcgtcg 120
tccgggacga cgatgccgct ggcgtaccag acgtcggcgt cgtctcccga gtggctgaac 180
aagggcgaca acgcgtggca gctgacggcg gcgacgctgg tggggctgca gagcttcccg 240
ggtctggtgg tcctgtacgg cggcgtggtg aagaagaagt gggccgtgaa ctcggccttc 300
atggcgctgt acgcgttcgc ggcgtgtggt atctgctggg tgacctgggc ctacaacatg 360
tccttcggcg acaggctgct gccgtgtggt ggcaaggcgc ggccggcgct gagccagggc 420

<210> 15855

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G7

<400> 15855

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agtccccctct ctgaaagctc cgtctgtctt caccatctgt gtcttcacca tctgtgcagg 120
ttcggcgaaa acatcataac cttttcttcc ccaacaacgc atactcttag ctagggtttc 180
aacgcattctg tcgacgggag ctagggcgtc gccgccgtca atgtcgcggc actcccactc 240
tttttcgtca accgcattcga gcggagggcc acctgtgtcg ccgctttctt gcatttgttt 300
tgcttcgcat ttggaacagg taacgggtcca tcattctccat atgacctcct tgtatcctcc 360
ttcgttcctg gatgacggca tacaaactga ataagattct gtatttcgaa tacgattctg 420
gag 423

<210> 15856

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H1

<400> 15856

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cgtgccgata taatccaatc gaaaccgcca cactgtttgc cgccagcccc ctagtaacct 120
 gcttaattta ggcatacgtg agactctgag agaaggtact gaccacacaa gggaggccac 180
 tcccgcccggt ttcgtccggt tcgtcgccga tccgtacgca actccccgtga tccgatccgg 240
 acgtacggcc gctctctctc cgggctagct ggcgatcgcc gactgcatgg ggccggcggt 300
 cggcgacggc gaccgcggcc ccggcgccgc ggcggagcac aaggtgaacc tgtcggcgcg 360
 gcagccgttc gtggagtcgg tgcggacgtg cctgcccag acgtttttcc ccgacgac 418

<210> 15857
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H10

<400> 15857

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 cttgggggtg gtttgagaga gggagagAAC atggccgcgg cggcgggtgtt ggtggtgctc 180
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 gcacccaaga tccctggatg ctccaacgat ttatcctgg taaaagtgca aagctgggtc 300
 aatggcaaag aggggtggcg gtttggtggc gtcgggtgctc ggtttggtcc aaaaatcgct 360
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 tcttc 425

<210> 15858
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-010-Q1-K1-F3

<400> 15858

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 tgagcataat ctcagacttc ttctgggcca ttgtgagctt tatcagaatc ttctttgaca 180

cactgttctc attggacaaa actgacaact tcaagaaagg gtatggtgct ggtaagaagt 240
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 tcggcggcgg aggtggaagt ggttcacggn gtcctcgac tctatctgac atccaatcca 360
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 ccgcctgat 429

<210> 15859
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H11

<400> 15859
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 gtattacctc aaaagaccac caccgatcg ttcagattct gatagatggg aaagacaagg 180
 ctgtagctga caacgaaggc aatgtgctgc cgacgctggt gtacgtggca cgagagaaga 240
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 ccgtgataag caacagccct atcatcctga acgtggactg cgacatgtat tccaacaaca 360
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<210> 15860
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-H3

<400> 15860
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 gtcctctcgt gacattccat agaggactga cagc 154

<210> 15861
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D4

<400> 15861

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ggcggcgctcc ggcagcccct ggtactgccc cgaccgcgtc aagtacctcg gtccctactc 180
cggcgagccc ccgagctacc tcaccggcga gatccccggc gactacggct gggacaccgt 240
cggctctgtcc gtcgaccccg agaccttcgc caagaaccgc cagctggagg tgatccactc 300
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catgaagatc agcgaggacg tctggttc 388
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<210> 15862
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D5

<400> 15862

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gtcgggtcaa gttgcttcag cttctgagga actttaggcg atgtgaccag ttcagcagtt 180
catgctcacg agagcttgct gtcgatcatg tttcagagat cactcgcaat ggttcaattt 240
gcatgcagct cgatatcgaa agtcagtccc ggtatatattc aagaaagctc aaccttttct 300
caaaacctcg ggcgctgacc ctggcttgag aaatggaagg tgcggttgg atcgagccct 360
attacgcaac gctaactgcc agatgtacag atagtatcag gtcggttcg tcgcatgaa 420
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<210> 15863
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 15863

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acaagcgcca gcgggagctc ctggagagct acgcggacct gtacgcgcatc atcaaggccg  180
tggagaagct ggaacggggc tacgtccggg acctcgtctc agccgcccac tacgaggcgg  240
agtgcctcaa gcttatctcc cagttcaact ccctctcttc ctgcgtcgcc ggcgcgctca  300
ccgtccctcg ctctgtccag gcgtaccgnc tcgattgccc cgccgcgctc aaccgncttc  360
tccagtcggg cgtcccgggc accgtcgagc tccgcgcgcg gtccgcctca tccgcgcg   419
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<210> 15864
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D8

<400> 15864

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gtcccgaggc agggcttaaa aagcttgatg agtaccttct cactcgcagc tacatcactg  180
gtaccaagc ttccaaggat gacttggttg tctacacttc gttttcgtct gtcctctcgt  240
ccaagtatat caacgtagca aggtggttta atcacattga tgcgctcgtg aggctgagcg  300
gaattactgc agagggccaa ggtgtgaagg ttgaatcgtc agcagttcct tcagccccaa  360
ctccagatgt tgctgaagca caggccccag ttgctgagga ggacgacgac gatgatgttg  420
acctttt                                         427
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<210> 15865
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D9

<400> 15865

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cctgagtagc ggcaccggcg ccgcggccat acaccggcag ccgtcccgtg ctggagcctt 180
cctagtcgtc acctgcaggc ggagctcctg cgtgaccgtc cgcgccgcat gctctgtcac 240
ggcggcatct ccggtgccc tagagctgca gaacaagggg ttgtctcttc agacttgggc 300
ggattactag ctagggccaa cgcttgaatg tt 332

<210> 15866

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E10

<400> 15866

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cgatgacatc gcgcatagcc cggaaaatcc gaggcctggg gtcatacata atcatcccca 180
gggtggcgac gtctatgctg gggtgccaaa ggattacact gggcgagagg tcaacgtcga 240
caatttcttc gctgttctgc ttggcaacaa aactgctctc aggggtggga accggcaagg 300
ttgtggacag tggccccaat gaccatatat ttgttttcta cagtgaccat gggggctcctg 360
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agaaga 426

<210> 15867

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E2

<400> 15867

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cgctggtgcc cacttacgc tgtccctgt accggtgtcc cttgtaagct gctgcacctt 180
 cgctgectac tcgagctccg tgggtgcgagg gcaaggtccg gtcaaccggc cggaacccct 240
 gtgtactatg gttgttgcg tgaactctga ggccaggggt ctgccgtgca atcgcatccg 300
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<210> 15868

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E3

<400> 15868

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 tcatcaagtc cgtcgtaag tccgacaagc aggggtgccg taaggttacc aaggctgccg 180
 tctaggccgg caagaagtaa acggattgac acttttgttc ccaaagctc gtcttttctt 240
 tgcttcgggtg ctcttctcaa gggtcacatga gttgagcatt tcactaacga taccaccttt 300
 ctgctgtcac gaccttgcat gaaacatgat ggcgaggcag ttgcttcgag ggatctgggt 360
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<210> 15869

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E5

<400> 15869

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 gccgtggacg ccacccggcg ccgacgcgtc tccgtgtcgg tcgggatggc ctgggacggt 240
 ccgctctcgt cgggtgcgct catcatgcag agcaggaacg cgaagctgag cgagaagctc 300
 aaggagcaca tcgaggacaa ggtgggtcgg gcggtgtcca agcactgcca cctgggtccg 360

gaggtagacg tgcgctcttt cgagcgcggc ggctagctcg gccggggccc caagacgtcg 420
cgct 424

<210> 15870
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-010-Q1-K1-E6

<400> 15870

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gcctgtcctt gaggaggcca caagagcagt atacacagct ctccaccctc aaaccatggg 180
tggttctgac ttaggtctgt catctggggc taacacacta cgcttcgtat ccgaggtgat 240
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gtttcttctg aatgacctgc ccggaaacga cttcaacaat ctcttccagc tgatccagca 360
gttcaataag tcgacggcaa taaaccacaa gagtgaggca gttgaggcac tacctnctcc 420
gtgctatat 429

<210> 15871
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E7

<400> 15871

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gatatattct agctgcaggt gaaacttt 88

<210> 15872
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-E9

<400> 15872

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 aaacccacct aaaatgcctc ctggggccacc accatccttc gagggtctcg ggttcaaaca 180
 ttttggttatg gatgtggcag ttaacaatat tgcacatgtc aagagtgaat actttcaaac 240
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 aagggaatc aagtacgaac caaatttcaa ggtgcatgtt tgcttctttg ccaacactcg 360
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<210> 15873

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F1

<400> 15873

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 caaccgctat gccgacctca ccaacgacga gtaccgcgcc acctacctcg gcgtcaggag 240
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 ggccggagtcc gtcgactggc gggccaaggg cgcgcgtcgg gagatcaagg accagggcag 360
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<210> 15874

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F10

<400> 15874

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atgtcaggct cgtcgagtgg ccatcctgtg cctgaagctg aatcgctggc tgcagaaaac 360
acgggtgaag catcagcagt tgaggttgcc aaccatcaag tgccctgaagc gagccgtata 420
gaaagca 427

<210> 15875

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D3

<400> 15875

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tcgaaggagg gtgcactggc tgaagagaac atgcgcggga tttgcttcga ggtctgtgat 180
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gtggagatcc aggccccata aaatgcactt ggtggcatat acgggtgttct gaaccagaag 360
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<210> 15876

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B8

<400> 15876

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actctctgc cgctcttctt ctctctctc gtggcgcccg cgctgcgct cgccacatcc 180
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aactacaacg gcaacttegc gccctcctcc tccggaccgc cctccctcct cttaggtctcc 360
gagcgcaacg gctcgctcaa cctctacctc acccccgctc ccacatccgc ctccgcccgt 420
cgccgcgacg 430

<210> 15877
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B9

<400> 15877

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<210> 15878
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C1

<400> 15878

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<210> 15879
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C11

<400> 15879

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cctccaagcc ggccggacct ccacctcgcc catggcggtt tcccccgctc agcgtactcc 360
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tgaaccccat cct 433

<210> 15880
<211> 206
<212> DNA
<213> Zea mays
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<400> 15880

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gacctgaatc gagcttgccc ttagtccctt gattcccatg gcactagatc tcttctttct 180
gacacgcgct cttacagacg agcatc 206

<210> 15881
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-010-Q1-K1-C2
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gccgcgcgag gccggcgagg tccgcgtcaa gatcctcttc accgcgctct gccacaccga 180
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<210> 15882
<211> 409

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-C3

 <400> 15882

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 ttaataagca atgcatgcat agatgccctt tctgctgaaa agtattacta ttttattcgg 180
 atgatgggac gtaaagcatc tcatgtagca ttggaatgtg ctcttcagtc acatccaaat 240
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 cagatatgtg atgctgtgga ggcaagagct gaaaaagaca aatatcatgg agttgtactt 360
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<210> 15883
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-010-Q1-K1-C4

 <400> 15883

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 gcgcgcgcg ccgcggcttc cctgtccctc tctcctcgt cgtcctccgc cttccccgac 240
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 taccgcaaga acgcgctcgc cgacgcgcgc ggctccagca aggccgcaa gttcgtcaag 420
 gtggccgt 428

<210> 15884
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C5

<400> 15884

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cagctgcaga agacggatgc tgactcatga 390

<210> 15885

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C6

<400> 15885

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tccggccagc cggcggcgat ccccgccgag gtcgcgcgc tctacgacgc cgtcttcgag 360
cagttcgacg ccgaccacag cggcggcgtc gaccgcgccg agttccacga cgagatgcgc 420
cgcatca 427

<210> 15886

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-C7

<400> 15886

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 cagcgacacc ctgctgtaca aggaggagct ggagaagatg aaggagatgg cgccggacaa 180
 cttccggctg gacttcgcgg tgagccgaga gcagacgaac gcggccgggg agaagatgta 240
 catgcagacg cgcatggcgg agtacaagga ggagctgtgg gagctgctca agaaggacaa 300
 cacctacgtc tacatgtgcg ggctcaaggg catggagaag ggcatcgacg acatcatgct 360
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 cgag 424

<210> 15887
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 15887

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 caccgtcgca ggcccgcgcc cggacaccgg gctcggccgc ctccgcaagc agcctgtgcg 180
 ttccgccgtc gtcaagatca gtgatccggc cggggacgct gcggcggttcg tgccgacctc 240
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 ccccgcgggg taccgctcgt cgccgaggag cgcggaagc acgccaccgg cctcgccact 360
 ggggactacg ccgnccatct cgccgtttgc cggcgccgggt ggtcggttca gaaggaaatc 420
 atcgt 425

<210> 15888
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-C9

 <400> 15888

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90

<210> 15889

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-010-Q1-K1-D10

<400> 15889

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tccgctctcc agcacttggt cggaagaaaa agaaggtaga acacgtaac gagacaacaa 180

ggatcatggg gcgcgggcgc ggccacctcc tgctgccggc agcagccgcc tgcctgtggg 240

cgctgtcgtg cgcgctgctg ctgcgcgctg nccctcaccg cgctggcgcc ggcgcggcg 300

ggctgctgga ggtcgggctc agcaagcgcg gcggcgggct cgaccagcgc gcgctggcg 360

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<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D11

<400> 15890

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ccttacgttg aatgatgatt tacaacgtgt tttagcaaag cacgatgcaa ttgctgctgg 120

catagccatt cgattacaaa aacaaaaatc agccccggcc cgcgcagaca gttctccaac 180

gaagcctgag ccgacaaaagg aaacagaaca aaggtctgct aaagttgcca gtagtgtgac 240

tccatttgag cagttagcac ttctgcacc accatcatca agtgcttcaa agtctcatgg 300

agaatcagct gttagcccaa atattgattt gcttagtggt gatgagtttt ttaaaccaga 360

acctgttcat tccaagctc ttgttcttt agtcactcag gcttcagctt cttcaagccc 420

cagtacttta gac 433

<210> 15891
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-D12

 <400> 15891

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 gccgctgggc tgacatcatc aagcccggaa gcgtaaacac cgaccccatc ttccccagca 180
 acaagctcac cggcaccgac gtcgggtacc ctggtggcct ctggtttgac ccgctcggct 240
 ggggcagcgg ctccggcgag aagatcaagg agctgcgcac caaggagatc aagaacggac 300
 gcctcgccat gtcgcccgtc atggggcgct ggttccaggc cgagtacacc ggcaccggcc 360
 ccatcgacaa cctcttcgcc cacctcgccg accctggcca cgccaccatc ttccaggcct 420

<210> 15892
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-A1

 <400> 15892

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 gctacggcta tgggtggttac ggcagcagca atccccatat gaactaccac cgccaaaaca 180
 ccgagtcctg gaccaccgtc gtcac 205

<210> 15893
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-A10

 <400> 15893

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gcacaagatt tcaggcagca gggcaccaag gtgcggcgga agatgtggct ccaaaacatg 120
aagatcaagc tgatcgtgct gggcatcatc atcgcgctca tcctcatcat catcctgtcg 180
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tttgettctt tagtcgtcgt gttaagtcgt cctgcgccga taattcttgg tggtcaccag 360
ataaagagtc attcctgggtg tcggtgttga ttgctgttgg ttggtcggga aatgactggg 420
tgaaccg 427

<210> 15894

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A11

<400> 15894

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tattcagtga gcaaggacag gtgctggatg ctaaggatcat ctacgacagg gatagcggca 180
ggtcaagggg gtttggtttc gtcacctatg gctctgccga ggaggtcaac attgccttat 240
caaacctgga tggcttaacc tggattgtag accgatccca atcacgggtg cagaatcaaa 300
gccagggcgt gaattttgag attttgttaa agtggttttag aggtcaatag cgtgtgttca 360
caaggtctaa gttggaaccg gtattctttc tttcgtatga g 401

<210> 15895

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A12

<400> 15895

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cgccgccgtg gcaatggctg ccagcgccct gcttgccggc ggtgccatgg cccaggaggt 180

gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca ccgtcaaggc 240
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 agacgaggtg ccgagcggcg tcgacgccac caagatcttg caggaggagt acctcaacgc 360
 gccaaagcgag acctactccg tcaccctcac cgtgccggga accta 405

<210> 15896

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A2

<400> 15896

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 atttgtgctg tatctaggtc ctcatattgc tctgttcact attaaagctg ttcagtgtgg 180
 ccgaattgat ttgaaaatgg ctccatatga taccatacag cttaagggtg ggccatcatg 240
 gctcgacaag aaatgttctg aatttggtcc gcttgtgtat ccagcatcag ctcatctgtg 300
 taggatcccc gtctttgatt tactacctca gatacagctg gaagcagttc tttggggcat 360
 tgggactgca cttggcgagc ttccccctta ttttatatca cgagcagctc gcttatcagg 420
 aagc 424

<210> 15897

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A5

<400> 15897

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 tcatatctct tctcttcttg tccaaacaga aggaaaagga gacaatttga gctgagcgga 180
 aaatccatat ctctcttata catttagagc atatggatcg atttataaga atcgaatgtt 240
 ttgtttttat gttattttgt gatagaatga aaaagaattc tatatagaat gggttgggaa 300

ttatgcctag atccccgtata aatggaaatt tcattgataa gaccttctcg attgtagcca 360
 atatTTTTatt gcaaataatt ccgacaacct ccgggggaaaa aagggcattt acttattata 420
 gagatg 426

<210> 15898
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-010-Q1-K1-A6

<400> 15898

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 tggcatgaac gagaaggatt gggtggcggt agttgctgtc cacagcgatg cctgggttact 180
 agctgttgca ttctactttg cagcccggtt tgggtttgac aaagaggcca ggcggcgact 240
 cttcaacatg ataaataact tgcccacaat atttgaagta gcgactgggg ttgccaagaa 300
 aaaaaacang gagaaggaa ccaataatac cagcaaaagc aacaaaccaa gttcgaaaat 360
 gacaacaaga ccgagtcctc atttgaaggg gacaaaagt ggcggcccta aggatgaaga 420
 tgatgag 427

<210> 15899
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A7

<400> 15899

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 gctcctctc gtctctgctg ctgcggccct taaggtcctt gaagttggca ttggaaccat 180
 taccttgga ttaatccaga aggccttaat ggaaccagta accacccatc caatgcctgg 240
 ttgaacagct tacacttaat cctacacttt acaatatacc attgcgcaat ttaagcacat 300
 acttgagtg aaaccagcac cacagaatgc actaagcaat gttcctgtca aaacttattc 360

aagatcactg gaactttcaa aagagtttga cgctagatct gcatg 405

<210> 15900

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-A8

<400> 15900

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cgccaactcc gtcatggcct ccaaggagtt tgtgcagtct ctcaacatcc aaaagcggct 180

acggaagcac aggagttgcg tcaacacgat aagcttcagc gcggacggga ggctgctcct 240

ctccgggtcc gacgaccgga ccctcgtgct gtgggactgg gaggaggcgg cgccggcctt 300

gtcgttccac actgggttca gcagcaacgt gtaccacgcg ctgttcatgc ctgtctccgg 360

tgacaggagc atcgtctcgt gcgcttgctg aatgggatgt gatcca 406

<210> 15901

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B10

<400> 15901

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gtgctggtgt cggcgctcgc cgctggggcg gtggtcctgc tgetgctgtg cgccgcgcgg 180

ccgcggggcg ccgacgcagc cacggcgtgc gacgccgcgc agctgacccc gtgcgcgggc 240

gccatcatcg ggagctcgcc gccaccgcgg gcgtgctgca gcaggctcag ggagcagcag 300

ccgtgcctgt gcacgtacgc gcgcgacccc aagctgcagc gctacgtcag ctgcgccaac 360

ggcaagaacg ccatggccgc gtgcaagggtg cccgtgccgt cgtgctaatt taaacttctg 420

ttagcgcc 428

<210> 15902
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B11

<400> 15902

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tcatcaacaa tctctcgctt ataccaccac ctaaactttt agactcagca cataatgtgc  180
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atccaacaaa gggaactaaa gttctgatca gggacgaatc tggtcagctt cctcatgaat  300
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gatgcaaaga cattgtgccg gagaattgta atatcacttg tcaactaaac gaggcaccta  420
ttgattcttc agatca                                     436
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<210> 15903
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-B2

<400> 15903

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tggccttcac gaacaagagc ctagtctctc ggcacgcagc gctacgggtc tgctcgtcga  180
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cactgaagcc tctgggagat aggggtgcttg tgaagcttgg tgccgcagag gagaagacag  300
ttggtggcat tttgcttcca tctactgccc agactaaacc acaaggagggt gaggttggtg  360
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cacaagtagt                                     430
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<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-B3
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 ggggcgttgc ttgtatatga cgctactcgt cactcaacct ttgagaacgt tgagcgttgg 360
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 tctgac 427

<210> 15905
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-B4
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 ggcattaa 428

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 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H7

<400> 15906

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agtgcacacg ctagccgatac aacggctcac gc 332

<210> 15907

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F1

<400> 15907

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tctttgagca gggattcata caatctggat gagtccatat atttggttat gctagatcaa 300
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<210> 15908

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F10

<400> 15908

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gattttaaac gaggagaatg caatcgacct gtctgtcgct ttttgcattc atatacaagt 180

tgaagttttc tgtagctaa acttgagtgc tctgcctaac gttgcctgta ctgttgtgc 239

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<211> 384

<212> DNA

<213> Zea mays

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<212> DNA

<213> Zea mays

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gctgctggtg agcagccctt gtcggcccct acggtcggcc cgcccgctta gtgtgtccgc 180

cgtggcgcc gtcggtacca taagcagcgc cgtgggccct cgcggtctgg ggcgggggt 240

gctgcc 247

<210> 15911

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F6

<400> 15911

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<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F7

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gcattggcta ctagtactcg gagcatgac tgatggggcg cgccaagagc gacatcctac 180

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<210> 15913

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-F9

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tcggcgtgtt ggggacttgc accttatccg aagatgtctt ttcggagcat gggtcgcgat 240

ataagggaaa gttttgggaa tatatcgagg cggaactttg aggtgagaat tcaccacaga 300

gggaagtctc ttgggtcttc aagtgacttg caagacaggc ctgctgaagt tcagcaaagc 360
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<210> 15914
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 <213> Zea mays
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 gccaccggcc cgcgcggcgc cggcgcgggg cccatctgcg cgtccatgct catgtcctcc 180
 tccaaccgc cctacgacct gacgtccttc cggttcagcc ccatcaagga gtccatcgtg 240
 tcccgcgaga tgaccgctcg ctacatgacg gacatgatca cctacgccga caccgacgtc 300
 gtcacgtggt gcgcgggctc cgcggggctg tcctgcgcgt acgagctctc caaggacccc 360
 gccgtgagca tcgccatcgt ggagcagtcg gtgtcgccgg gcggcggcgc gtggctgggc 420
 gggcagc 427

<210> 15915
 <211> 168
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-G4
 <400> 15915

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 ctctctcgtg tcagccgccg cggttgccgc cgacgtcgac gcgtatgacc cgtgatagc 120
 gcgattaggt cccggtggag atgacatcga tctggagctg aacgcgga 168

<210> 15916
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-G6

<400> 15916

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acatcaaccg gaaccgtag tcgtgcttgc gactatcgcg tcgaattagt cagggttaagt 180
tggttcgtat tcccattaac taggtctata aatagattaa atagaattgt tggtcacaat 240
aaatattatt aatttagcat gcgtatatg tgatgattga tttagataac tcgctaaatc 300
agctaattaa gttacacagt ttagagagtt aataaaaagc ttataattaa tatagatttt 360
ctagggtaat atgtcaatta gattaatgga tatagtcgat gtctgctgt gatatccatg 420
g 421

<210> 15917

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-G9

<400> 15917

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cttcctctcg cccgactctc ctaccacctc cgctccgtac cttcctctcg tctgccgtct 120
ccgcgcctac gtatctttgc ctcccatcgc cttttctcct ccctggacca tgtctccgcc 180
tctgcttcgg cctccgcggc cgtggccgag gttgtaggcg tgccggacgc ggaggagtcg 240
gtagaggagg aatctgcggc cgaggcggag gcgaggcgcc ccaggtcgtt cgtgctccca 300
cggctgccgc ggccgaagct gagcgtgaag gagcggaagg agctggcctc gtacgctcac 360
ggcctcggca aaaagctcaa atcgcaacag gtc 393

<210> 15918

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H12

<400> 15918

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 ctctgcgcg cagacaccgc gcccgccaag cgcccagaac cagccgccgt ccagcgagca 120
 accgcaagca caaacacagc agcagtcctg gcaagcgag ccacagcagg cggcggcgag 180
 gccgaagcgc gggggcgggc cggactccac ggactgggtg gcctcgtcgc tgacggcgcg 240
 gttcgggata ggcgcggggc tggcggtggc cggctttctg gccgtcggcg tcgtgtccga 300
 gcagttcaag acccgcttca aggtcgcgca acagcaggcc aacaccaagg acgtggaaca 360
 ggagcaggag gtcgctctgc ccaacggggt ccggtactac gagatg 406

<210> 15919

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H2

<400> 15919

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 tacccaatcc tgacgacgaa gcctccgagt ccattctctt ccgggtgaag atggtctgcc 180
 gtatccacgg gtcaggcgac ttggttctcg actacgaggt aaaccccagg agcgacctac 240
 ctcccccttc ccgggtggtc gtcgtgttca gctgcgagag gtccttgagc cacgtcacgt 300
 ggtacgtgcg cgggccccttc gagtgtacc c 331

<210> 15920

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H5

<400> 15920

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 cctccaattg gttgtccact gtggccgggc cgaggggtac ttatctatag gcccgagat 120
 ctgcgcctgc gcccgtagga atctccgcac ctcgctatcc gtctcttgga tagatcgatc 180
 ttccgctcgt ggttcccctt cgccccacac gagtacttcc aaggaactgg aacttccagc 240

cggcacgggg attcgagctt ctgctctatc agcaactcca ctgggcgctg agggctctgta 300
gcagagcggg gcgatcgggg cagaaggagg ccatgatgga ggggcaagcg tggctggcgc 360
ttctggtcgt ggtggc 376

<210> 15921
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-H6

<400> 15921

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catgtacctg aagacacacc cgggtgctgga cgagatcgag tcgggagaag gggtgcaacg 120
ttatggaccc gctcaagctg tcgtaccagg cgcgggatgca cgcgtcgcat aacaagcggc 180
tgccgctgca tgccgtgctc agcgtgctct actacgacca gctggagatc cg 232

<210> 15922
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-E9

<400> 15922

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catggcgacc tcgcgggcgc tctccaccgc cgccaatccc acccagctct accggtcccc 120
cgctttgctg ggcaagccgg tgaaggggct tggcctgagc atggggccgc agcgcgcccc 180
gcggagcatt gtgtgccagg cggcgagcag catcttcgcc gaccgcgtcc ccgacatgga 240
gaagcggaag ctgatgaacc tcctcctcct cggcgccatc tcgttgcccc ccgtcggcat 300
ggtcgtcccc tacggcgctt tcttcgtccc tgccggctcc gggaacgccg gcggcgggac 360
ctacgcgaag gacaagctgg gcaacgacat cacggtggag gcgtggctca acacgcacgg 420
tccccaaagac cggacgc 437

<210> 15923
<211> 443

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-C8
 <400> 15923
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 caccagggtcc agggggcagca gcagtagcgt ggccaagggg tcaccacat cagcctgcca 180
 gttccagtgc aggggcgtcg ctttcgcggc ggacaccagc ctccggctcg agctggacga 240
 gaaccccgag gcgatcatct cgggggcgtg gcccggaac tgctcccttc tcagctacga 300
 caaccttcgc gccttctctg agtcgcatga gacgggtgcc caggcagact atcagcgcg 360
 cgtggcgctc ctgagcgaga ccatgtccac actcgtgctg gtggccacag cagaccagac 420
 cctggaggac ttctagtgcc act 443

<210> 15924
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-C9
 <400> 15924
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 attagaaatg caagacagcc aatacgaaat gctagaaaat cggccgcgct taagggatgt 120
 cctcagcgtc gaggaacatg tgctaggggtg tatactatca acccaaaaa acccaactct 180
 gccttacgta aagttgccag agtacgatta acctctggat ttgaaatcac tgcttatata 240
 cctggtattg gccataattt acaagaacat tctgtagtat tagtaagaag aggaaggggtt 300
 aaggatttac ccggtgtgag atatcgcat attcgaggaa ccctagatgc tgcgcagta 360
 aagaatcgtc aacaaggcg ttctaaatat ggggccaaaa agccaaaaaa ataagtgaat 420
 cgtttttagc cct 433

<210> 15925
 <211> 251
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-009-Q1-K1-D1

<400> 15925

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angattaata cggtcgcggt tgatatcgag gaagactccg agaaagtcga agccctaata 120
gagaagggttg acgtgatcaa gaatgatggt gattcaattg tggatcctat catcggcaag 180
gttgtcaagt gcaaagatat ttagagacaa gtggtgaact gaagatgtga gacattagtt 240
gggctggtct g 251

<210> 15926
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D10

<400> 15926

agccagttcc ccctgtcaat tgttcttggt ggggttggtg atggaccatg ggacatgatg 60
caccagtttg atgacaatat acctgctcgg tcatttgaca atttccagtt tgtgaatttc 120
acggaaatta tgtcgaagag catagcagct gacagaaagg aggcagaatt tgcattgtca 180
gcgctgatgg aaatccctac acagtacaaa gcaacaattg atctccaact cttaggccgt 240
cgccaaagaa taaccccaag aattgctctg ccaccaccaa caaggaccgc gtattcgcg 300
tccagtagct ttagccaaca gtctggtggt tattcgcgat caagtagctt tgaccaacaa 360
acaagtggcg cctctcagca acgttctgag agcttgaaac agcagaagaa acctgcagcc 420
a 421

<210> 15927
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D12

<400> 15927

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cgaggatgtc ttgcaactgc ggatcaagct gcggtgcgg ctcaagctgc aagtgcggca 120
 agaagtaccc tgacctggag gagacgagca ccgccgcgca ggccaccgtc gtcctcggcg 180
 tggccccgga gaagaaggcc ggcgccgagt tcgtcgaggc cgcggcggag tccggcgagg 240
 ccgcccacgg ctgcagctgc agtggcaact gcaagtgcaa tccctgcaac tgctgatcac 300
 atcgatcgac taccatggat atgattatta tctatctagc ttgtggtggt ggttgaacaa 360
 taataagcga ggccgagctg gctgccttac ataggta 397

<210> 15928
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D3

<400> 15928
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 tcgtgatata ctggcccttc ggcgagtcct catccatcgt ctcatagtgt accaggtatt 120
 agaaaatcta attgagaatt ccattcctta cctcaagtac agttacatga agtacatagc 180
 tgttcacaag aaaaagcgtg ggaaagaatc gacagtgggt aggtcagtgc ggttatcaac 240
 aagagtggag aaagagtatt t 261

<210> 15929
 <211> 97
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D4

<400> 15929
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 ctggcggtcc cagctccaca gaacgtgcgc gtcgtgg 97

<210> 15930
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D5

<400> 15930

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gatatctcaa aaggaatgga ttatctgcac cagaataaca ttatacacag agatttgaag 120
tctgcaaadc ttgtgctagg ccatgaccaa gttgttaaga tcgcagactt tgggtgtggcg 180
cgacatggaa gtcagcaggg gcagatgact gctgaaactg gaacctaccg atggatggca 240
ccagagataa ttaatcataa gccgtatgac cacaagcgg atgtattcag gtttgccatt 300
ggctcttggg agctggcaac ttcaatgggc ccatatgaca acatgacacc cttgcaaggc 360
tgc 363

<210> 15931

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D6

<400> 15931

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aagctataat gagagatggg aagaagcgaa tgcagcacia gccagctgc tgtgggagcc 120
ggctgcgcgt gcgcggtctg cggctgcgcc gcggtggtgt actgcgcggt ggacgctgcg 180
gcgctctgca ggccctgcga caccgatgtg cagctgcga acctgctggc gtcgcgccac 240
gagcgcgtgc ccttttccat ggtgactgct gcatccggcg t 281

<210> 15932

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-D7

<400> 15932

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agtcaggtag gcgaagctgg aaaagcaagc ggctttggaa gttggaattc atggcgtgca 120
ccttgctgtg tctccaccag tccacctgtc cgtgtggccg cgcc 164

<210> 15933

<211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-009-Q1-K1-D8

 <400> 15933

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 gtcttgcaac tgcggatcaa gctgcggctg cgggtcaagc tgcaagtgcg gcaagaagta 120
 ccctgacctg gaggagacga gcaccggcgc gcaggccacc gtcgtcctcg gcgtggcccc 180
 ggagaagaag gccgctcccg agttcgtcga ggccgcggcg gagtccggcg aggctcgcca 240
 cggatgcagc tgaggtggca actgcaagtg cgaccctgc aactgctgat cacatcgatc 300
 gacgaccatg gatatganta ttatctatct 330

<210> 15934
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E10

 <400> 15934

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 cacgagtcgg gaccccgagg gagccaagcc atggcgcca cctcctgctg cctcctccac 120
 cagtcaaccg cccgcctcgg cgcgtcgccg cgctggccg ccgccccgcc gcgcagcgcc 180
 cagctgctcg tctgcaaggc ccggaagcag gaagccgccg cggaccagag cgacgtctcg 240
 cgccgcgccg cgctcgcgct cctcgccggc gtcacgggcg gcgccggcg caaggtgggt 300
 cctgccgccg cgggatacgg agaaacagcc aacgtgttcg gcaagcccaa ggcgagcacc 360
 gagtacatag cgtaca 376

<210> 15935
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E11

 <400> 15935

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gacatgtcga tcgtgtccta cggggagcgc agcgacgagg aggcgcggcg gatgtacgcg 120
gagtggtatg cggcgcacgg ccggacctac aacgccgtcg gcgaggagga gcggcggtac 180
caggtgttcc gggacaacct ccgtacatc gacgcgcaca acgccgccgc cgacgcgggc 240
gtccactcct tccgcctcgg cctcaaccgc ttcgccgacc tcaccaacga cgagtaccgc 300
gccacctacc tcggcgccag gaccaggccg cagagggaga ggaagctcgg cgccagggtac 360
cacgccgtcg acaacgagga cctgccggag tccgtcgac 399

<210> 15936
<211> 185
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-009-Q1-K1-E3

<400> 15936
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agagaatccc cttatcccac aaggagcgag taatgtgagg cagagaccga cacagatggc 120
agcggttatg gtgtctcgcc aaggccagga gctgcagcgg tacagcgcgga gcacggggcg 180
gcgcg 185

<210> 15937
<211> 194
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-009-Q1-K1-E4

<400> 15937
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gatcgtgtag cctcgtcttc cttctcccga tctgatccga agcgtgctg tgactacgac 120
gacctaaagg cacgatgcat ttgaccaacc tgctgctgga ggagcccatc cggatggcct 180
gcatcctgga gccca 194

<210> 15938
<211> 424

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E5

 <400> 15938

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 tgggaagttt ctggaagaaa ttggaataat atcggattca tacagaggaa aaagttctct 180
 attgatgcaa acgctgtacc tagaggatag ggatagagga agagggaaaa atcggaatga 240
 gataaataaa gaataaagcc aaataaataa gtcgaagata gaagagccca tattcaaaat 300
 gagggaaatgg aaactcgaag aggatccttc tgattctcaa agaattgagg gcaaggatgat 360
 tgataccgag aaagatttct tcttagtata agacgtgatt tgatcccat atgtttggga 420
 aaag 424

<210> 15939
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E6

 <400> 15939

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 actgctatgg tctaggtcat gtacaccacc tcagcacaag catgaatgag aggctacaac 120
 tcgtacgaac cttatggaag ggggggatac aactctgttc ccatcaacgg atgtggcagc 180
 ccctagctag tcggtggatc ggaacctgta tcagaaatcg aaataatata agactgtctt 240
 caacggatca ca 252

<210> 15940
 <211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-E7

 <400> 15940

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ggcgtccgtg tccatgtgtg ctgccg

86

<210> 15941

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-E8

<400> 15941

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accctgatgc agccggccaa gatcggcggc cgggcgccct ttgccttgct ggcgtcccgc 120

cgcgcgtcgc aactcgctg cagggcgctt cgcgtcgacg ccggcgccgg cagtatcacg 180

tgctccctgt aggacgtggc cagcagggtg cgtcgactcc g 221

<210> 15942

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C7

<400> 15942

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cacgcccctg ttgtacacca gggacttcga cgagatggag cgcctgttgg acggcgagat 120

caacaagcag ctcaaccagg cggagttcta cgccctgcta caggagttca ggacagacta 180

caaccagacc cac 193

<210> 15943

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A11

<400> 15943

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ccggcaggaa tcttgctctc ttctgttctt tatcaccgac gtcgccatcg ctaactgagg 180

ccgccgtagc actgccgcca ccgaaggctg cgggtggaaga gacgaagccc cctgtgccga 240
 ccggggacga gaagggggaa ccgaccgtgg aggagctagc gggcctgctg gacgtccggg 300
 tgggcccagat ggtgaaggcg tggaggcacc cggaggcgga caccctctac gttgaagaag 360
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<210> 15944

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A12

<400> 15944

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 cagtcggccg tctctaggtc gtcggcgagg aaggcgccct tcgtcgtcag ggccagctcc 180
 agccctccag ccaagcaagg tgccgacagg cagctgtggt tcgcgtccaa gcagtccctc 240
 tcctacctcg atggcacgct gcccggcgac tatggcttcg acccgctggg cctctcggac 300
 ccggagggca ccgggggctt catcgagccc aagtggctgg cctacggcga ggtgatcaac 360
 ggccgctacg ccatgctggg cgcggtgggc gccatgccc cggagatctt cggcaagatg 420
 ggcatta 427

<210> 15945

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A2

<400> 15945

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 ttaaataagga tatgctctaa gtcttcccat actttcctat aatgactgca acgattttct 180
 ccattttgcg aattcctatt ttatgtgaag tatattacta tcatatacat gatctaaatc 240
 gatccacttt aaataaaaata gaaaaaatcg aaagaatcaa aataagaaag agtaaataat 300

agcacaaggt attctgcttc ataattctga aatagagttc ttgttttagt attacttctc 360
attaagatgt atatattaat catcctatctt taatatatat taatcatcct atttttatta 420
ggtttctaatt caa 433

<210> 15946

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A6

<400> 15946

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gctcatcgag ttctgctcct gctctctctc gcgtgtgtcg tcgcgggtgc cgatcttcgc 120
gacgcggagg acccgctgat ccggcatatg gttcccgggtg gagatgacaa cgatctggag 180
ctgaacgcgg tgttccactt actgagcttc aggcagcggg tcgtgaagtt ctac 234

<210> 15947

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A9

<400> 15947

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tatgcacaca tttaggggga gaatggtcta taatttgaat ctttgagact aacttcattt 120
tcaaatctat tatgtgtgta gtctcaaatt agaaagggaat gttcgggcaa agacaatcac 180
ttccactgca aattttgatg ggtatcaaag attctttgct ccaataaatg tatcttttat 240
acatttcata aggggaatggg tttctctttt atatgctact ccaacatcat ctaaaattgg 300
taaacatgta tcacatcctt ttggattgca aatgtctaaa gtagcatagc ttataaattc 360
tcctatttag aacttaattg att 383

<210> 15948

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B1

<400> 15948

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tagcacctgt ttccgcacca acatcccgcc caccttcccc ttcttcgtgg gcgtggaccc 120
gcgcgtggtc gccatcgtgg acgcctgcgc cttcaccgcg ctcttcgacc cggacctcgt 180
ggacaagcgc gacatcctca tcggggcccta taaccggggc gccggcttta ccggcggggac 240
gcgcgtcggc gtgtacctcg acacgcagga ggaggagcac gcgcgcgtca agaccttcgg 300
catggacctt cttcacc 317

<210> 15949

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B11

<400> 15949

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aacaagttgc aagcaataac cgaccaagga cgacgaacgg gtcgatggcc acgctctcct 120
cctgcagccg cctgagtagc ggcaccggcg ccgcgggccat tcaccggcag ccggcccgtg 180
ctggagccgt cctcgtcgtc acctgcaggc ggagctcctc cgcgaccgtc cgcgccgcaa 240
ccgctgtcac ggctgcggcg ccggctgccg tagagctgca gaacaagggg gtgtcgtcgc 300
cgacgtgggc ggagttcgag cttgggcggg cgcgggtcta ctggaagacc agcaacggcc 360
ttccgccctc ggctggcgag gggcttacct tgttc 395

<210> 15950

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B12

<400> 15950

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cttcggggccc ttagccgcga cgagcgccac cagggagtag aagagggttaa ctttctgggt 120

ggaaacgatg tacttcgaag gctatggctt ccgtggaagt actttcgagc agacatatcg 180
 ctgctatcct gcgtctttca tcgacaagcc acaacttgag gccggtgaca aaattataat 240
 gccaccatca gctcttgatc gtcttgcac tctgcatatt gaatacccta tgctatttga 300
 agtccacaat gcagcagcag aacggacttc gcattgtggt gttctggagt tcattgcaga 360
 agaaggcatg atctacatgc catattggat gatgcaaaat cttcttttgc aagagggaga 420
 tatggtgttc at 432

<210> 15951
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-B2
 <400> 15951

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 ctcgtaacga cctgatggaa ggggtggata caactctgtt cccatcaacg gcggtggcag 180
 cccctageta ggcggtggat cggagcctgt atcagaaatc gaaataatat aagactgtct 240
 tcaacggatc aactgcca tccccacgc taaatttggg ggctacagt cacacgctag 300
 ccgatcaacg gctcacgcta ccatgcgctc tacgcggtg tgccccctag ccagcttcta 360
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<210> 15952
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-B3
 <400> 15952

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 cgctgtcttt attcgacaga gcaagccgag gcgccttatg gactgggtgt acatgttctt 120
 ttaagataat gcttgagtga ttgtgaatgc caagggtgag atgaaagggt ccgctatcac 180
 tggacctatt gtctatgagt gtgctgatct ttggcctagg attgctagcg catcatacgc 240

cat 243

<210> 15953
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B4

<400> 15953

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gttgtctc 68

<210> 15954
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B5

<400> 15954

acaccagcg caaagcgatg gcgtcgctca ccatgatggc gttcttcgac gccctcgagg 60
tgcccgcgca ctacgcccgt aggacacttc acgtgggtcaa g 101

<210> 15955
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B8

<400> 15955

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agggccagaa ggtcacggtt cactgcaccg gctacggtaa ggatcgtgat ctgtccaaga 120
aatTTtggag caccaaggac cctgggcagc agccattcag tttcagcatt ggtcaggggtt 180
cagtgatcaa aggatgggac gagggagtta tgaccatgca agtgggtgaa gttgtctgta 240
tccagtgcac gcctgattat gcttatggag ccagcgggtt cccagcctgg ggaattcaac 300
caaactcagt gcttgtgttc gagattgaag tctcagtgcc ccagtaattc ggatctgtca 360
gctatggaaa cgttggccat gcttctcaag taatgaaata attccgttgt cacctcatgc 420

ttcatac

427

<210> 15956

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C10

<400> 15956

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gatgatgtctc gcggccgacg tccacctcgg caccaagaac tgcgatttcc agatggagcg 120
gtatgtctttt aagcgtcgca ccgacggcat ctacatcatc aacctgggca agacatggga 180
taagctccag ctcgcggcga gggttattgt tgccattgag aaccgcaag acatcatcgt 240
ccagtgggcc cgccctacg gtcagcgtgc tgcctcaag ttgcgcagt aactgggcgc 300
ccatgccatc gctgggaggc acaccctgg taccttcacc aatcagcttc agacctcttt 360
cagcgagcct cggctgtcga tccttactga cccaagact gaccatcagc caatcaagga 420
gtct 424

<210> 15957

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-C12

<400> 15957

agcccttgct cgttcgttca ccaccacagc tccgatcgat ccgcaaggca ggcaagatgt 60
acaacgcgcc gtcggcccag gagatgtcct acttgagca cgtgcagagg cgccacgagg 120
agaagggctg cctctacgcc tgcatttca ctgcgctgtg ctgcttctgc tgctacgaga 180
cctgcgagtg ctgcctcgac tgctctgtct gctgctgcaa ctagccgggg ctagctccgg 240
aggacggctg agacgcagca gatggaggtc gcctccgtct cttctaccta cctaccaatc 300
tacctagtga tgatgattca gttcccgttt agtctgggtg tgtgcaagtg caaacataat 360
aacgcacgca tgtcgtaacg tagtacagga gagatgtttt actctgtcag tttccagttg 420
agcat 425

<210> 15958
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-C2

 <400> 15958

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 tgatgagccg gtcattggct acattctaaa ggaaactctt aaggctctgg aataccttga 120
 ccggcagggg caaatacatc atgatgttaa ggctggtaat atccttattg atgggtgctga 180
 ggtagtgaag cttggagact aggggtgattg tgcgtggatg tttgatagag gtgacaggca 240
 tagatctagg aatac 255

<210> 15959
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-H8

 <400> 15959

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 atagagatca ttggcgtaag tggaacctca caccagcagc ttgcaacttt gagtggacac 120
 cagggccag tatggcaagt cgcattgggt cattccaagt ttggttccat gcttgcaccc 180
 tgcagctacg acggccgagt gatcatctgg aaggaaggaa gcaagcctga tgaatgggca 240
 ctggtacaca cttttgctga gcacaaattc tccgtgaatt ccatcgtgtg ggcgcctcat 300
 gagctgggtc tatgcttggc ttgtgggttca tcagatggga acatttcagg cttcaactgat 360
 cgttctgatg gaggttggga taccacgcgt attgatca 398

<210> 15960
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-009-Q1-K1-C6

 <400> 15960

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tatatgcaga ggaacgattt gtcgtatgtc ctcctagtgc cagtgggatt catgtgcatg 120
ttgaaattgc taaagatggc ctactgctca tttctcctgt gaccggtgaa tgaggaatca 180
gtacggtgct agactggatc agaaatactt tgagcag 217

<210> 15961
<211> 254
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-G11
<400> 15961

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cttactctcg accgactctc ctaccacctg cgctccgtac ctttctctcg tatggcgtat 120
acgcgcctac gtatctttgc cttccatoga cttttctact acctggacca tgtcttctgc 180
tttgcttacg gcttcgcggc cgtagcccag gttgtaagcc agccgtacgc cgaagaatct 240
gtagaagatg aatc 254

<210> 15962
<211> 285
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-G12
<400> 15962

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gtatccaacc ctaacgatcc ggatcgccctt acccgcgctc atccacgcga attgtttcga 120
ttatcctcgg atttccccgt ttttttgtgg gtttctatc ttcttcgatc ggagtgctag 180
ggtttgggcc cgctcgggtg ccgggtactc aagggtcaatc gttagttgaa cgggctaggg 240
ggctttttta cggggggaag ggaagcgaat ccaaacaatg gagaa 285

<210> 15963
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G2

<400> 15963

gagccgcgac cccgggcagg tttccctacg gacggggcat ccgaccgga cgacctggcg 60
ccgcccgcgc gacgaatctc tggcctccca ctaccgccgc gacgtccagc tttgttctac 120
tccaagggtcc agctctggct tgccgtctc cgcccgact ccacgtact ggatctctag 180
cttgctcgta cgggatctct gtactccacg ctactggctt gagccatggc aaagaatgtt 240
tctagggcac tttggaacac tgtgtatgag aaaggctctg ttgatgtgct ccttgaacat 300
aaggacatcc caaagttcaa aagtcaaat ggttggactg ctgagggatg gaacaatttc 360
acaaactagt tcaatgagag gtattctttt tgcccatact ccaaacagca 410

<210> 15964

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G3

<400> 15964

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atccatggca tgcgtcagca ccttccagag ctgccccatt gccagaagag caaagatcaa 120
caccaggtcc aggggcagca gcagtagcgt ggcgaagggg tcaccaccac cagccttcca 180
gttccagtgc agggcgtcga ctttcgcggc ggacaccagc ctccggctcg agctggacga 240
gaaccccgag gcgatcatct cgggggctg gcccggaac tgctccctcc tcagctacga 300
cgacctccgc gcctacctg agtcgcagga gacggcggcc catgcagacg atcagcgagg 360
cgtggcgctc ctgaacgaga ccattttcac acccg 395

<210> 15965

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G4

<400> 15965

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cacttttcagt tacggctact accaaacggg tccgggcatc tatggcatgc agtcatcact 120
 cttccatat 129

<210> 15966
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-008-Q1-K1-G5

<400> 15966

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 ttttaggttc ccgctccagt gggttggttaa ggtgtggtat tgcggatgaa tctctaaatg 120
 aaggccaaaa ttctgtacat gaacagtctt gtcagagcca tgactctggt aaagaaattg 180
 atgggtatgg tcagccagat aagaatacaa acacaggaga tgaggataat ctttgtttca 240
 tatectccaa atcatttcag agaacaagaa agaaagatac caaacagcag aaacactact 300
 tcacaacgaa aaatgcttca caggctccat tgtcattttg gcctcactgg gcttatgaga 360
 tgtatgattc gtattcactt tccaggagag ctgcaggaaa actctatatc tntatattat 420
 agagagataa gt 432

<210> 15967
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G6

<400> 15967

attaccccca ggccccagcg tgcgtggtct ccttctctc gtggcgacga ccgagcggcc 60
 gtcgctgcct acgtgcccag tctgttcgt ccttctgccc gcgacggcca cgacctggtt 120
 ataggcaaag tttgtcctga actgttcac atgggtggaag gctgggtatt ctctgctttg 180
 ttagtggtgt ttctagcgtt cacaacacct tgtgagtcac tctacttgcc aggtgggttat 240
 atgcacacat attatcaagg tgaagtatta agggctaagg tgaacttctt t 291

<210> 15968

<211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-G7

 <400> 15968

 gccagtgagt gaacaccagc cgtcttggcc cgcttctccc ctgctgcggc catggcgacc 60
 tccgcggcgc tctcgaccgc cgccaacccc acccagctct gccggtcccg cgctgcgctg 120
 ggcaagccag tgaaggggct tggcctgggg atggggcggg agcgcgcaag ccagcggagc 180
 atcacgtgcc aggcggcgag cagcatcccc gccgaccgag tacccgacat ggagaagcgg 240
 aagctgatga accttctcct cctgggcgcc atatcgctgc ccaccgtcgg catggtcgtc 300
 ccctacggcg ctttcttcgg ccccgccggc ttcgggaacg gcggcgggcg gacctacgcc 360
 aaggacaagc tgggcaaaca catcac 386

<210> 15969
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-G8

 <400> 15969

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 cggggcatgg aggtggcgtg gaaccaggtg cagctgcacg acttctctgc cgccccggcg 120
 gagctggagc gcctctacgg cgagatccac ctgctcaagt ccctccgcca ccgcgcctgc 180
 atgcccgtcc acgcgtcctg ggccgacgcc gccgcgcccc gcctcgccgt caacttcgtc 240
 accgagctct tcacctccgg cagctgcgc cagtaccgcc tccggcacc gcgggcccgc 300
 gccgtcggcg tccggcactg gtgccggcag atcctcgacg ggctcgcta cctacacgcg 360
 cgcggcgtca tccaccggga cctcaagtgc gacaacattt ttgtcaa 407

<210> 15970
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-G9

<400> 15970

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ttcgtcgacg acgacttcga gctggccacc gagctctaca gccaggccat cgacgccggg 120
cccgccaccg tcgacctcta tgccgaccgc gccaggcgc acatcaagct cggcaactac 180
actgaggctg tggcggtatg taacaaagca attgagcttg atcctatgat gcataaagct 240
tactaccgga aagggtgctg atgcattaag cttgaagaat accaaactgc aaaggctgct 300
cttgagttgg gttcttctta tgcataagc gattcaaggc ttgctcgtct attgaaggaa 360
tgtgatgagc gcatcgctga ggaatctagc caggcaccag taaagaatgt tg 412

<210> 15971

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-008-Q1-K1-H10

<400> 15971

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gcggttcaag gagtcagagg tgtaccactg ccgctgggccc atgcttgccg tccccgggat 120
cctggtgccg gaagctctgg gcctgggcaa ctgggtgaag gcgcacgagt gggcggccgt 180
ccccggcggg caggccacgt acctgggcgc cccggtgccg tggggcacgc tgccgaccat 240
actggtgatc gagttcgtgg ccatcgnctt cgccgagcac cagcgacca tggagaagga 300
ccccgagaag aagaagtacc ccgggggggc ctt 333

<210> 15972

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H12

<400> 15972

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ttcttgaaat ttctttcacg agtggcagta gccaaactgtt ggtaacgtca ttctaggctt 120
cctgtagccc cttttcgaga ccctgccgaa ttattgtcct ctccctgtgc gtgtg 175

<210> 15973
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-H2

 <400> 15973

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 tctctctctt acctagctag ctagccagcc ttcctgtagc gcggcagata tggtgcctc 120
 caccacggcg gcggcggcgg cgctcgtgct gctgctgctg ctctgtctgc tcgccggcggc 180
 ggccggacatg tcgatcgtgt cctacgggga gcgcagcgac gaggaggcgc ggccggatgta 240
 cgccggagtgg atggcggcgc acggccggac ctacaacgcc gtcggcgagg aggagcggcg 300
 gtaccaggtg ttccgggaca acctacgcta catcgacgcg cacaacgccg tcggcgacgc 360
 gggcggtccac tccttccgac 380

<210> 15974
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-H4

 <400> 15974

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 aataaccttg ggtgatcgtc ttggcgatct ccttgatacg atgagtgcgc taaagaactt 120
 ggggctaaat gttgttaaag ctagtgtctg tctcgattct actggcaagc atatcaagtt 180
 tgctataact agagcgttca ctggccgtaa aattgatgat ccagagttgt tagaagcagt 240
 tcgactgacg atcattaaca acatgataca gtatcattcg gagtccagca gtcaattggc 300
 tatgggggca acttttgggc cagaagcctc tacggaagag gttgatgtgg atatagcaac 360
 ccacattgat atcta 375

<210> 15975
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H5

<400> 15975

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atttcaagat gatgaagaga tcgtggagac tgagaacgtg gcatcggttt ccagcacgtc 120
aaagctggca gttgcaaagc tgategatgg atatcttgcg gaggttgcca aggatcccaa 180
ccttcctctt ccgaagctga ccgcgcttgc tgaaatggtg tcttccctac cccggccaac 240
gcatgacggc ctctaccgtg ccattgacat gtatctgaag gagcaccoca gctgtcgaa 300
gagcgagaag aagaaactat gcgggctgat ggactgcaag cagctgtcgc aggatgcgtg 360
tatgcacgcc gtgcagaacg agcgtctccc cttgcgtgtg gtcgtgcaag ttctcttttt 420
cgagcag 427

<210> 15976

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H6

<400> 15976

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tgtggccccc ccttgccgag acggcgcgga cgccccgtcg cccaccccga tggtgccac 120
tctctccac gccggcaccg cctcgtctca gagctcgtct tcgcccgcac gcgcgggggc 180
cgtcaccgcc ttccaccccc tcgcgtccac cccatccata cgccttgccg gctcctcggt 240
ctcgtccaat cgccgtctcg aggtttcact ccggggcgggt tcggccgggc accgtttcgt 300
gggtagggga gcaccccgga gccgtcgcgt cgtcgccgcc ctagcagggg agcaaactgg 360
gggttccgag gtgggcgatg ac 382

<210> 15977

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G10

<400> 15977

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 ttcaagatgc agatctttgt gaaaaccctg actggcaaga ctatcacctt cgaggtggag 120
 tcgtctgaca ccattgacaa cgттаaggcc aagatccagg acaaggaggg catcccccca 180
 gaccagcagc ggctcatctt tgctggcaaa cagcttgagg acgggcgcac gcttgctgac 240
 tacaacatcc agaaggagag caccctccac cttgtgctcc gtctcagggg aggcattgcag 300
 atctttgtga aaaccctgac cggcaagact atcacctctg aggtggagtc ctctgacacc 360
 attgacaacg tcaaggccaa gatccaggac aaggagggca ttccttcaga ccagcagcgg 420
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<210> 15978

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E5

<400> 15978

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 cgtgggtcatc tgctgcggcg gcgtgggtggg cgcgtgcacg gcctactttc ttgccaccca 120
 cgccgtgttc cccaccgttc agacgctcgt tgagagggtgc gccccggcgt gcgccgactc 180
 agggaaagcc tgctgcttcc tggcgctgga ctggtgcgac tccactccgg ctctttccag 240
 gctcgcgcgg gcc 253

<210> 15979

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E6

<400> 15979

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 gggcgcaatg tcggcttcga tttcgtcggg gaattggcta gtcgaggatg acatacttct 120
 caagaacgcc gtcgaggctg gtgcttcggt agagtcctta tccagaggag ctgtatgttt 180
 ttcccgtaaa ttcactcttc atgaaatata ggaccgctgg aattcattgc tatatgatcc 240

agatatctca acacaagcag cttttcggat ggctgagtat gagaatgaac tttctacttg 300
cgatccatcc aaagcacatt aacttttgaa cttagaagct aaggattttt tatttcagaa 360
accgaaaatt tacctggaa tagaatt 387

<210> 15980

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E7

<400> 15980

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agctctctag tctccagctc tagctagcct tagcctcgtc caagggacga agggggccacc 120
atgagcgtgg tgatcctgga cggtccacg gtgcgcggct tcgtggcgga cgaggcggcc 180
ttcgcgcgca gcctggacgc gcgcttcgcc gcgctggacg ccaacggcga cggcgtgctg 240
tcccgcgccg agctccggcg cgcgctcgag tccttcgcc tcctcgacgg cggcggttc 300
gggtccgccc agccggcgcc gctccccgcc gaggtcgccg cgctctacga cgccgtcttc 360
gagcagttcg acgccacca cagcggggcc gtcgaccggg ccgagttcca cgaccagatg 420
c 421

<210> 15981

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F10

<400> 15981

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gctccggcgt gctcttcac ctcacactcg ccgtcgtgct cttctctctc tcgccgtcgc 120
cctccccac tccaccccc aacaccgcac ccaatggccc gatcaccgac ctctctccca 180
ccctccccgg cctttcggac ctctaccctc ccgtcccaa ctccactgca catctctct 240
ggggcctcct ccgccgcctc ctctgccgt ccgacgcgt cccgggaacc tctgcaggcg 300
tcctcgaggc agccgaagcc tggcggaatc tcacctggc tgtcaccgcc gcggcaagcg 360

aggaggaagc gcgtctccaa ggactccgct gctcatcggc cgtgggaggg gatctacgca 420
cgggacgtgc cacacttcc 439

<210> 15982
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F11

<400> 15982

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tgatgtgcat agttgcatac tttgatcatg gaacgatggc tgaagaaacc accttgctgg 120
caaattcgta tggaagaaat gaaggaacca agggcataca tcatggaaga aagctgatgg 180
acaatagtat tggttcaaac cgtgagtatt caatcgatga tatgtctcat ccaaaggcac 240
cacatactga gctcaagcaa cctcatact tagctcctgg ttgctcaagc aaccctctca 300
agcaaccctc atacttagct cctggttgca ttccttaaag ttcatgcata catatatagc 360
cttccactca tcatatgctg gtatccgac tatatataga cacatatgat atgttgcata 420
tcgccaggtt cttagatca 439

<210> 15983
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F12

<400> 15983

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actcgagtta gacaagacat tactccgtat tatttagaat taggggcttc tgattggtcg 120
tactcatggc aatgttggtg cctgatctta gtttctcggc atcgatctct agtgtgaaac 180
ttccaaagta cggggcatca aagagtgaga ctttctttgt taaaagcccc caacattccg 240
tgcaaaagct aggccagcgg aatctggcaa atatggtact aataatggcc ggccaccaaa 300
aatggtccca acacttgagt taaggaggac cagtgggtgg ctttgaagat cagggacagt 360
taa 363

<210> 15984
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F2

<400> 15984

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 ggtggtgagc ttcagttcca aacagagggt gagatgatta gcatggcggg gcacaagaac 120
 cttcttcgac ttcgtggttt ctgcatgaca cctactgaaa ggttgtagt ctaccatac 180
 atggctaacg ggagtgtggc atcacgttta cgagagcggc agccatctga gccacctctt 240
 agctgggaac caagaagacg gattgcaactg ggatctgcaa gaggactttc ttacttgcac 300
 gatcactgcg atcccaaaat catccatcgg gatgtcaaag ctgcaaatat tcttttggat 360
 gaagacttcg aggcagttgt ggggtgatttc gggcttgcca agcttatggg ctacaaagat 420
 acccatggta caaca 435

<210> 15985
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F4

<400> 15985

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 ccgggacatc gccgtggcgt ggcgcggcac catcacccgc ctcgagtggg tggccgatct 120
 gacggccaac cagatcccc tgccgcgagac gggcgtcccc tgcccggacc ccgacgtgaa 180
 ggtggagcga gggttcgcgg cgctgtacac ggacaagggc accagctgcc gcttctgccg 240
 gtactcggcg cgggagcagg tgctggccga ggtgcgcaag ctggtggatc tgtaccacgg 300
 gcggtgcgag caggtgagcg tgacggtcac gggccacagc ctgggcagcg cgctggcgat 360
 gctgtgcgcc ttcgacgtcg cggatacgcg cgcgaacgtg tcgcctggcg acag 414

<210> 15986
 <211> 269

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-008-Q1-K1-F5

 <400> 15986

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 cgctgtcttg cctcctctc ggtcgaagaa gaagaagaag aaaacatgtg tccgggatcc 120
 gtggagtcgt cgtcggcggc ggcggcgggc aagagcgtgt gcgtgatgga cgccgcgggg 180
 ccgctgggcc acgcgctcgt ggaccgcctt ctccggcgcg ggtacaccgt ccacgccgnc 240
 acgtacgccc gcgacgggga ggagggcgc 269

<210> 15987
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-F6

 <400> 15987

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 cagcagccgc ggcgaggtcg tccgtcggat tcggaagctc agttattact gaaaagataa 120
 tacagtacct atggcttctc tggacgccgt gcgaggagac ctgcacctgc tgattctgta 180
 cctgaacaag gccgaggcgc gggacaagat ctgccgagcg atccagtact ggtccaagtt 240
 cattagcaac ggcgagccag ggctgtgca gaacgtgtac aagttcacca atctgtccc 300
 gaaagtgttc cggttttgta aagttgtcaa cgatctgcac gctttgatca gtccttc 357

<210> 15988
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-F7

 <400> 15988

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 aacatcccca ttgtcctctg cggtataaag gttgatgtga agaacaggca ggtcaaagcc 120

aagcaggtta ctttccacag gaagaagaat ctgcagtact atgaaatttc tgccaagagc 180
aactacaact ttgagaaacc tttcctgtac cttgcaagga agctggctgg tgatccgaac 240
cttcactttg ttgaagctgt tgctcttaag cctccggaag ttaccatcga catggctatg 300
cagcagcagc atgaagctga gcttgctgca tcagctgcac aacctcttcc tgatgacgat 360
gatgatctga ttgaatagaa aggatcatga gtcttggact ggaacagaat tgtgccttgc 420
acgatttaaa ttt 433

<210> 15989

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F9

<400> 15989

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ctaggctatg gcaaagaagg aagtttttca ttcccaaatg tccctccaat ggcagacctt 120
gtttatgaag ttgaactcat tggatttgat gatgttaaag agggtaaatt ccgaagtgcac 180
atgacagatg aagagagtat tgcagctgca gacaggagaa agattgaggg caatgcatat 240
ttcaaagaaa tgaagcttga ggaggccatg catcaatatt aaatggccat tgcatacatg 300
ggagatgatt tcatgtttca attatttgga aagtacagat acatggcctt ggctgtgaaa 360
aatccatgcc atcttaatat ggcttcattg cttgatcaaa ct 402

<210> 15990

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-G1

<400> 15990

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agcgccgccg tggtgaccac catcgttgcc cgcgccgca tcgccaggcc caatgctcta 120
gggctgcctg cgctgagggc gaggagcag aggggtgcgt gcagctacgc caaggacgcg 180
gccccagtca gcaccaaggg cgcaggcgcg tcgctgctcg ccgcagcggg cgcggtgacc 240

gcgtcggcgg gggccgcgct ggcgctcgtg gacgagcgca tgtccacgga gggcaccggg 300
 ctgagcctcg ggctcagcaa caacctgctg ggggtggatcc tcctgggggt ctctggcctc 360
 atctgggtccc tctacaccat ctacacctct gacctcgacg aggacgagga g 411

<210> 15991

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E3

<400> 15991

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 gtctgagtct gtcaaggatg ccatctccca gattgttggg gatgccaagg agaagaatag 120
 gaagttcact gagactgtgg aacttcagat tgggtctgaag aattatgatc cacataagga 180
 caagcgtttc agtggctctg ttaagttgtc ccatattcct tgttccaaga tgtatgtgtg 240
 catgcttggt gatgcccgac atgttgagga ggcctagaag atgggacttg actacatt 298

<210> 15992

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C8

<400> 15992

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 tggccgccgc ctctcgtcc tcggctctcc tgctgctcct ggccgccgcc ttggttggca 120
 tgagcgccaa cgccgccacc ttcaccatca ccaacaactg cgggttcacc gtgtggcccc 180
 cgccacccc ggtgggcggg ggcacgcagc tgaaccggg cgggacgtgg accgtcaacg 240
 tgccggccgg caccagctcc ggccgcgtgt ggggccgcac cggtgtcttc ttcaacggca 300
 acagcgggag ct 312

<210> 15993

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C9

<400> 15993

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gcaaggtcca cgagcacgag gcagacgtcc ccgcctccga cctctgggag atctacggct 120
ccctccgagc cgcggaactc ctgccggagc tgcctccgca cgtgcttgcc aaggtggagc 180
tcgtcagcgg cgacggcggg gttggtacca tcttgacagc aatatttcct cccgggattc 240
ctggggtaca gagttacaag gagaagttca tcaaagttga caacgagaac tatatcaagg 300
aggcagaagc cattgatggc gacattttga agctgggggt cgaggcatac atgatacggc 360
ttgagatcat tccaaaaggg gccaatctgt ctgtcatcag gtcgactatc g 411

<210> 15994

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D1

<400> 15994

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gatcgaatag atgttcacaa tagattcaga ctctgtctct atcgcccatc aactgttacc 120
acggaatata gagaacatgt gaaagatctt tcttgctgtt caaaagattt cggcaggatt 180
gtcattgtcg acaacaatcc gttcagtttc attcttcagc ctttgaatgg aataccttgt 240
gttccatttt cagctggaca acattctgat gaccagctca tgatggttat atttccactc 300
ctgaagcatc tttctctcca gaaagatgtc agacctgtat tgcattgaaag gtttcatatg 360
ccagaatggg tccaaaagca tgggatcccc caaact 396

<210> 15995

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D11

<400> 15995

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taccgctcca gaaatgaaat ggggtgatga tggcgtgaag ttacgttcgg ctgccgtatc 120
tctatcgatt tcatgattta ttgtgcaaaa tataacaact aaaaaaatgt gatacaactc 180
tcggattcag cggttcgcac agaggggatct attactgggc tagtcattga aagaagggtta 240
atagttgggt tagtcgacaa aagcgacaaa agcactggat gagactgcaa ggtttcagtc 300
aagtctgtaa acaattttgg aagtggatat gtattgttat gaagactgca ttatgattga 360
aatttataaa tattattat 379

<210> 15996

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D12

<400> 15996

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gccaaaggggt tctggttagg caaagacgag gttggcaagg ccaaagcatt cgatgagaaa 120
catggcttca cattcacagc cgggtgctaca gtggcctcaa ttgacaagaa gattgggctg 180
actgataaga tcacgacagg cactttcttg gttagcggga aggtgaaaga gatggaccag 240
aagttccagg tcttcgacaa gaccaagtct gcactcgctg ccgccgagca gaaagtgagc 300
agtgccgggt ctgccatcat gaagaacagg tacgtcttca ccggcgcgctc atggg 355

<210> 15997

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D2

<400> 15997

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tgtatgagaa aggggctttt gtgttgacgt ctgacggaaa attctcagtt gattttacaa 180
tggttgagga tgctgtagaa agcctgagca gggagatact gacaatacag gcaaagggcg 240
ataagccttc tgccaatct cttctccagt cccgtgcaac attgacacaa ccattgagaa 300

tggcattgga gaggatagag cacatgcagg tacctgttga catagccccg gtattcagca 360
 cggcaaacaa gctatttgca gacatttaac tatttgggct cagaatcggt gtgc 414

<210> 15998
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D3

<400> 15998

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 aacatcagca agttgagtga tgaatgggtt gcagatgaag aaaaagtccg ccatactgtt 120
 ggcttacttt tgaatggaaa tcatgagccc ggctctagga agctaacctg tggaatatgt 180
 tgtgaagggt attcttctga tacgatgagc tctgctgggt gcgctcattt ttattgccat 240
 gaatgttggg aaggctacat tagcgctgct ataggtgtgg gtccaagatg tttgtctttg 300
 cgatgtcctg atacatcatg tagtgctatt 330

<210> 15999
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D4

<400> 15999

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 agcgcacaga gcagccccga ctcccgcccc gatccgcgct ctctctccg tcgcttcagt 120
 catggcagga atggcacctg agggttctca gttcgatgct aagcactatg attctaagat 180
 gcaggagctg ctgagcaccg gtgagactga ggagttcttc acttcatatg atgaagtttt 240
 tgagagtttt gatgatatgg gcctccaaga gaatcttctg agaggcattt atgcttatgg 300
 ttttgagaag ccatctgcaa ttcacagag aggaattgtt cccttctgca agggctctga 360
 tgtcattcag caagcacaag tctggtacag gaaagacagc tacct 405

<210> 16000
 <211> 402
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D7

<400> 16000

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ttggacatgc tgttgttgta gttgtaaaca agatcgacag acctactgct cgtcctgagt 180

ttgtggtgaa ttcaacattt gaactattta ttgaattaaa tgcaactgat gaacagtgtg 240

atttccaaac agtctatgca agtggaaatta aaggaaaggc cagtctatct tctgacaatt 300

tagctgatga cctaggaccc ctttttgagg caattcttag atgcatacca gagccacgcc 360

ttgagaaaga tggTgccttg ctaatgcttg tatctaatac tg 402

<210> 16001

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-D9

<400> 16001

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atgaccgtcg gcggcgcccc ggcgggcccgg atcgtgatgg agctgtacgc caacgaggTg 120

ccaagaccg cggagaactt ccgcgcgctg tgcacggggcg agaagggcgT gggcaagtcc 180

gggaagccgc tccactacaa gggctccacc ttccaccgcg tcattcccga gttcatgtgc 240

cagggcggcg acttcaccg cygcaacggc accggcgggcg agtccatcta cggcgagaag 300

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gccggggcca acaccaacg cttccaattc ttttatctgc accgtcgcgga accccttggT 420

<210> 16002

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E11

<400> 16002

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agccctcctt ggcgagagc cgcttgagga actcgtaggt ggtcaccatg gtggccgctg 120
acagcgacat ggacccccac ctggggccca gccacggta gcacgccgcc cagccggcct 180
acttgagcag cccgcgcacg gtgctggcca gcggtggccg cgcgcgcg tggcctcca 240
tcacctgcag ccgcgtcttc acggtgtcca gggcatcgt caccagcgcc gcggtgcccc 300
cggccagggc cgcgctcgcg ccctgcacgg tcatcaggca agcgcagctc tcggagcgct 360
cgggtccccac ggcgcgcca 379

<210> 16003

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E12

<400> 16003

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caccacgca caggttatg ggccactagt ccggaccccg gaggagccaa gccatggcgt 120
ccacctctg ctgcctctc caccagtcaa ccgcccgcct cggcgcgtcg ccgcgcctgg 180
ccgacgcccc gccgcgcagc gccagctgc tcgtctgcaa ggcccggaag catgaagccg 240
tcgcggaacca tatcgacgtt tcgcgcgcgt ccgcgctcgc tctcctcgcc ggtgtatctg 300
ccggtg 306

<210> 16004

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-E2

<400> 16004

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caaagacctc aatgaggtta tcaagagggc aaacgcgagc cagtatggat tggccgccgg 120
cgtgttcacc aacagcctgg acacggccaa caccctgacg cgcgcgctca gggccgggac 180
cgtctgggtg aactgcttcg acgtcttcga tgctgcgatt ccgtttggcg ggtacaagat 240

gagcggcatg gggagggaga agggcggttga cagcctgaag aactacctgc aggtgaaggc 300
 ggctgctacc ccaatcaaga acgccgcgtg gttgtagacg ctgcaagtgt ggccttgtgc 360
 acgagaacca cgtatattca tttcctgggc acattcccga acaatgtgaa gcgt 414

<210> 16005

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C6

<400> 16005

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 gaggcacgcg cttgtatgtt ggcagattgg ccactcgtac tcgttcccgc gatttagaac 120
 atctgtttgg cagatatgga agaatacgag aagtggagtt gaagcgtgac tatgcattta 180
 ttgagttcag tgatcatcgc gatgctgatg aggctcgata ccagctagat ggcagggatg 240
 ttgatgggag tcgtattgtt gttgagtttg ctaaaggggt cccacgtggt tcatgtggct 300
 cacgtgaata tattgggaga ggcccttcac caggttc 337

<210> 16006

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B12

<400> 16006

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 gccgtggatc tcgccgtccc cgccatggac gtctcgacg cgggacctc cgtcgccggc 120
 gaggtccga ccaccggga gcaccgatg gggactacca tcgtcggggt ctgctacgag 180
 ggcggcgctg tcctgggcgc cgattccagg accagcactg gaatgtatgt agccaaccgt 240
 gcttcagaca agattactca actgacagac aatgtgtatg tctgtcgctc tggatctgct 300
 gctgatacac aagtcatttc ggattatgta cgctatttcc tccaccaaca cacaatccag 360
 cttggacaac cagctaccgt taaagttgca gccaaactga ttaggttgct agcttatcag 420
 aacaagaaca tgttg 435

<210> 16007
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-B3

 <400> 16007

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 tcccttcctt cctgtagggg ccaaaagggg tagagagtaa gagaagtagt tcattccctt 120
 gcccaacaca cgaaaacaag ctctcctcat caccctaata caagcaactg cttgtgtgtt 180
 gggaaattct tgtgaccctt gctatattat tatccgtgta gctactagct tcattccccc 240
 ctttgtacct atcagatggc tggcatgttt ctgcaacacc cctgggcggt cgctttcggt 300
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<210> 16008
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-B4

 <400> 16008

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 cataccacaa gtcttcttca caagtttagg agtgacagca acaagagatc gatggcctct 180
 gccaccgtgc tcaagtcttc ctctcttccc aagaagtccg aatggggcgc caccaggcag 240
 gccgcgcgcg ccaggccgcc caccgtctcc atggtcgtcc gcgcctccgc ctacgccgat 300
 gagctcgtga agaccgcgaa aacgatcgcg tcgccggggc ggggcacccg ggcgatggac 360
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<210> 16009
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-008-Q1-K1-B5

<400> 16009

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cgggtggagat gacaacgatc tggagctgaa cgcggagtcc cacttcctga gcttcgtgca 180
gcggttcggc aagtcctaca aggacgcga cgagcacgcg taccggctgt ccgttttcaa 240
ggccaacctg cgccgcgcgc gccggcacca gctgctggac ccgtcggcgg agcacggcgt 300
cactaagttc tccgacctca cgccggcaga gttccggcgg acctacctcg gactncgcaa 360
gtcccggcgc gctctctca gagaactcgg ggagtcggcg cacg 404

<210> 16010
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B6

<400> 16010

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ccgggcgcgc ccaccttggt cgccaagtt cggcaagttc gacgcctccg acgccccggc 180
ggaggccgag gaggcggggg gcgcgacgga tgggtgggctg gcgcagcccg tggaggagga 240
cgacagttgc ttgccatcgg atttgagggg cgcgattcgg cagtcaggga aggcgagcgc 300
agatttcgta aactccggag gcatgcgagc tatcgcagaa ctgctgatcc ctcaattgga 360
attcctcaac gaggaatgag cacaggctga actttgggcg ttgtcaaaga ttttctggac 420
acact 425

<210> 16011
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B8

<400> 16011

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ccgtgcgcgg tggcgcacag cgtgccgggc gtgctgttcg cgctcggcgg gctcacgggc 180
aactactggc acgacttcag cgacgtgctg atgcgctgt acgccgcgtc gcggcggtac 240
ggcggggagg tcctgttcct ggtcagcaac atgcagccgt ggtggctggg caagtacgag 300
gccgtggtgc ggcggctgtt caggtacgac gccgtggacc tggaccggga cgcgcgggtg 360
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<210> 16012

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B9

<400> 16012

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ttcgtccaca tcaaagcatt tcatacatcg atggaaaggt aaaaatatat tacaaggtat 180
ggacaaaagtt acaatattct ttataacgga taatacaaga atttttctta gaatctttcc 240
acagttagat attcgagctt catcatcatc tgttgagctt cggattgtct gctaagcttc 300
ggctttgtgt tcttcggctt cgtcatcttg tacatatcaa agcattataa ggaaaattca 360
agtttcaagg aaaaggtaag cacaaggat gattttatta ccggcttaag atgacttcga 420
gcttcatcac cag 433

<210> 16013

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C1

<400> 16013

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gctcctcggc acctgcccggt ctcccatggg ctcttgccgc cgctgacact ggggccaac 180
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gttgctgcgg gaaccgccct gccggccgc cgctcctccg cccaagtgt ccctggtttc 360
ttggatgcac cgactgctcc gatggatgcc cctgcgcccg ccgtggagat ccgcgaagtc 420
tgggcgagca 430

<210> 16014
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C10

<400> 16014

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tccaatggac cgcgtacgc gccgccgat ccagcgtgg ccaagccgcg gagggggctc 180
atcgacggta acacggggta cctctacttc tggaacctg agaccaaggt tacgcagtac 240
gagcgcgccg tcgcggccgt gcccaactcc tcgacgcagc cgtctggcta ctccaggccc 300
gaggagaggc cgagaagcag cacaccttcc gagcggagct cggaaaccac ggtgagccgc 360
ccgcagtatg cacctgtctt ggataacagg gctagggatg accactcgga g 411

<210> 16015
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C11

<400> 16015

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gggccgaaat atatgcaaaa aattatcaca agtcaattga ccatcgtagt ttctatttca 180
agcagcaaga tacgaagaac ctgagcacia agtctctcct gacagagata aaagaaatta 240

atgagaagaa aaggaaggaa gatgatgtgc tccttgccat tgctgctgga aataggcggc 300
 ctatagttcc caatatgtca ttcgagtata tagactcgga aatccatgaa gatctacata 360
 aatcattaa gtactcctgt gctgaagtct gcaactcttc agatcaatta gattaagtga 420

<210> 16016
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C12

<400> 16016

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 cgggtggagat gacaacgata tggagctgaa cgcggagtcc cacttcctga gcttcgtgca 180
 gcggttcggc aagtcttaca aggacgccga cgagcacgcg taccggctgt ccgttttcaa 240
 ggccaacctg cgccgcgcgc gccggcacca gctgctggac ccgtcggcgg agcacggcgt 300
 cactaagttc tccgacctta cgccggcaga gttccgcggc acctacctcg ggctccgcaa 360
 gttccggcgc gctctctca gagaactcgg ggagtctgct caccaggcgc ccgtgcttcc 420
 caacgatggt ctcc 434

<210> 16017
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-C2

<400> 16017

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 acacctgcgt ggtggatata tgtgtgtacg acatgctgat ttgactcggg agtatctcgg 180
 gattgtacat gatacgacat catcaacctg ctgatg 216

<210> 16018
 <211> 405

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-C3

 <400> 16018

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 cggctccttc agcgaggaga ggtttgttga taagctcaac aagctcaaca acacaacagc 180
 gagcattcag acactttcac attggtgcat ttttcaccgc aagagggcca gaaggattgt 240
 ggacacatgg gaaaagcatt tcagtactgc aacaaatgat aagaaaatat cattcctgtt 300
 tctatcaaat gatatcttgc aaaacagtta gcgcaaggga ggagattatg tgcattgagt 360
 ctggaagggtt ctaccagat tattgaaaca tttttacgaa aatgg 405

<210> 16019
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-B11

 <400> 16019

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 gggatgaagc agtaccgcc ggcgcagccg agcggcatcc tcgacacctg ctttgacttc 180
 agcggccagt ccagcgtcag cataccgtcc gtcgcgctag tcttctccgg gggcgccgtt 240
 gtcagcctcg acgccagcgg catcatcctc agcaactgcc tcgccttcgc gggcaacagc 300
 gacgacagct ccttgggcat catcggcaac gtgcagcagc ggacgttcga ggtgctgtac 360
 gacgttggcc ggggcgtcgt ggggttcaag gctggggcgt gctgatcg 408

<210> 16020
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-H5

 <400> 16020

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cttctgcccc gatccgcagc ggcaagcgga gatgaactgc gagacctgtc agctgaaaga 180
actggagctg gaactgacgg agatcaggga tgttctgcgc tgtattttgc acaccatatt 240
cttccataga accctcagcc tggttcgccc caaagatggt gactgtgatt tcttcgatat 300
tacttatgta caatgtggtc taccggaact agaaaaggaa gttgacgaaa agatagacca 360
gttcagtgca tgggtggaga aacacccaaa ccgcagaagc cagatctgcc tctccttttt 420
cgacgagaaa cacagacacc ctg 443

<210> 16021
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H6

<400> 16021

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caatctgggt agaggattga aatacatctg aaggacatga tatatgatga ttaactcagt 120
taatgatgaa gggcccggt ctgaccaga gaaatgggaa gagctattca gatctgctcg 180
gtcagactag tggcattctg caaagcgtag taacgtaatg taagacattg catcgtaata 240
caatg 245

<210> 16022
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H7

<400> 16022

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gccttatggt cccacatct 79

<210> 16023
<211> 401

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-H8

 <400> 16023

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 gagagcctga gcgtgcgcga ggagctgaag aagcagctat ggctggctgg gcccatgata 120
 gccggcgcgc tcctgcagaa cgtgatccag atgatctccg tcatgtacgt gggacacctt 180
 ggagagctgc ccctcgcctgg cgcattccatg gccaaactct tcgccaccgt caccggcctc 240
 agcctgctgc taggcattggc aagcgcctta gacacactgt gcggccaagc gttcggcgcg 300
 aggcagtact atctcctggg catctacaag cagcgcgcca tgttcctgct gaccctggtg 360
 agcgtccctc tgtcagtggt gtggttctac accggcgaga t 401

<210> 16024
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-H9

 <400> 16024

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 cagctcgccg ccggttcacc gccgcctctt ccgtccaatc cgctcccgcc acaaccttgg 180
 ccccgggccc cgccacatcc tccatcctct ccatccgcga gtcgctctc tcaggcgaga 240
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 tgcgcagctt catccacgtc gcggacgccg ccgccgagcg ggaggcggag gaactcgacc 360
 ggaggattgc ctccggggag aaggatgcgg tgggtccgct cgctggagtg ctggtgggag 420
 tgaaggacaa tct 433

<210> 16025
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-A10

<400> 16025

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aacgggacaa agctggaccg gaggctgtac atgagtgtcc tgagaagcct ccgcatgcc 120

gggctggagg ttcatgtgaa gtggctccag agtaacttca ccttcattgga agagaaaact 180

tgatgccagg tgcaggtact tgttcctgtg cacgcatatt cagcacccaa gtatatcggg 240

cgctgaaga aaaccttgct ctgtacatgg aaaccgaaaa aaaaggtaaa tatttgcttg 300

cctcagtgtc ccattccgaa gcttgtagcg tattgtgtgca caattccggc attcattggc 360

tcaagtgaat agcgatgtaa atgtatttta agggaagcca actttgtacc agttacgatc 420

tgatt 425

<210> 16026

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A11

<400> 16026

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tggcgggcct cggcagagtg gtggtgctag cggagtgcga ctgttgggtt ggtgggtaag 180

agtgagaagg acatgaaagc gctgcggcga tccagcacct tgtgctcgcc gacaggcgtg 240

tcctatcctt cgtactcatc gaggatccac attcggacgc tcctcgccga cgtcgtgtac 300

tcgtgctcgt cctgcttcac agcagcgggt gctgctggga gcgcggtggc tgtggtgt 358

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<212> DNA

<213> Zea mays

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<400> 16027

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gtaccctgac ctggaggaga cgagcaccgc cgcgaggcc accgtcgtcc tcggcgtggc 180
cccggagaag aaagccgcgc ccgagttcgt cgaggccgcg gcggagtccg gcgaaggccg 240
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atcgacgacc atggatatga ttattatcta tctagcttgt ggtgggtggtt gaacaataat 360
aagcgaggcc gagctggctg gcatacatag gtattgtgtg gtgtgtgaga gagagagaga 420
aac 423

<210> 16028
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A2

<400> 16028

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tcgaaatgaa ataaattaag aataaagcca aaaaaataag tcgaagattg aagaacccaa 420
attcaaatg aagaaatggg aa 442

<210> 16029
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A4

<400> 16029

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cccacatcac gtagcgaat gctatactgc tgaggtcact accaactcca gccaaccac 180

gttgtcaaac ttgcacatta ggcttagttt gggtagctg gtattgacct caatccactt 240
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ccaaaatact tt 372

<210> 16030
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-A5
<400> 16030

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agaattgatg gggctctcaa ggttgacag aaacgtggaa gattgggtgc agatctagaa 180
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gtttataatg cttgggtggc catgaagcat aagtaccatt acaatgtggc ttgactcgag 300
gctaagcatg atgggcttta cattaacaac gtggcttcct tggcaaacct ttgggcactc 360
atcatggacg caggaactgg ttcc 384

<210> 16031
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-A6
<400> 16031

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agacagactg gggattttca gcattgcaag tgaagaaaaa tggatgaaggc cttttcaatt 180
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tgcagtctat tgtgtgtgat gatcaagatg gtaagtttgt aggggtccgt cggccaagct 360

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ctggactgga t 431

<210> 16032
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A7

<400> 16032

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ggggcgccga tccgtcccga cgtggtcagg ttcaccacaca agctgctgtc ctgcaacaag 180
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tcgcaagt 368

<210> 16033
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A8

<400> 16033

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<210> 16034
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A9

<400> 16034

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 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B1

<400> 16035

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tcgtgccgcc cgctgccagc aggggcggcc cggcgccggc caaggaggag aagggcctcg 240
gcgagaccat cttcggttc atcttcaaga aggaccagct ggtggagacg gacccgctcc 300
tcaacaaggt cggcgccgc cggccgcgc actcccgc caagacgacc gtcggcaaga 360
aggctgccgg cggcgacgac agcggcagcg gctgtgggtt caaccttcgc ggccctcgcg 420
ggct 424
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<210> 16036
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H4

<400> 16036

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cgaccgcgcg gctcaggcgc gccctgcggt tcgcgcgtgc ggggatgaa gcggacgtgc 180
tgcttgccc gggggccgag ggggaggccg tgggtcccgg gaggtggag gagcagcggg 240
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gcgggggctt caccggcggc ggtgcgggct ccggggcctc cggcgggtggc tcgggcaaca 360
agatgctgga ccggggcatc aacacgggca tcgggctcgg ggccagcacc tacgc 415

<210> 16037

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G1

<400> 16037

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ccgcgctcgc agaagcatac actacagaat cggggcacac agagttgagt cggtatggag 180
atttttcacc agtggacgga tcgtcgccgc gtttcgccct accttgatc ggagctgcta 240
tgcttcaata gctgaaatgg aagaggaaga agaagagttg cagttggcga ggtacatggt 300
caataggagg cgacgtgcac tcaatgagcg tcgtcatgga agttcgattc ccgggcgtgt 360
taggattcat cgtgatcaca tgagcggcga tgcaagaatc cgagcggact actttggag 419

<210> 16038

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-G11

<400> 16038

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agccgagaca ggggatagat tgagagagag gcgcgcagat ggcgacgccg tcgtcgtcgc 120
tttgctccag cttegcctcc ctgcggaccg cctccatcgg ccacccccgt ggcacgcct 180
tctccacgcc caggaaggca ttccatgtga gggcatcagc tcgggttgac aaattctcaa 240
agagtgacat catcgtgtcc ccttcgattc tgtctgcaaa ctntgcgaag cttggtgatc 300
aggtaaaagc tgtggaggtg gcaggatgcg actggattca tgcgatgtc atggaccggg 360
cgccttgtgc caaacatcac aattggacc ttggttgttg atgctctgcg 410

<210> 16039

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G4

<400> 16039

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ccgtggagcg cgagaagggtg aagatcgaga cgcagccctt ctccccctg gtgcagttcg 180
agcaggaccc cgtgcagatc ctggacgcgc tgctcccgt ctacctaac agccagatcc 240
tccgtgccct gcaggagtcg ctgccagcg agctcgccgc ccggatgagc gccatgagca 300
gcgccaccga caacgccatc gagctccgca agaacctctt catcgctac aaccgacagc 360
gccaggccaa gatcaccggg gagatcctcg agatcgtcgc cggtgccgac gccctcgctg 420
gctgagcctg agtccccctg g 441

<210> 16040

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G5

<400> 16040

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agggtgtaat ggccgaccag gctaaccaac ccactgtcct tcataagcta ggtggccagt 120

tccacctgag ctccagcttc tctgaagggtg tacggggcccg taacatctgc ccttcttttct 180
caccttatga aaggagattt gccacgagga actacatgac ccagagcctt tggggccctt 240
caatgtctgt tagcgggtggc atcaatgttc cagtgatgcc gactccgctt ttgccaatg 300
ctccagccga gaaagggtggc aaaaacttca tgattgattt catgatgggc ggtgtttcag 360
ctgctgtttc gaagactgca gctgctccca ttgaacgagt gaagctgctt attcagaatc 420
aggatgagat gatcaagtct ggta 444

<210> 16041
<211> 431
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-G6

<400> 16041
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gggccacatc atgggtctgca agatcgccga gaagtacctg tcggagaagg cggcgggcggc 180
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ggaccagggtg cgctggcact accactgggc cagcccgtc cactacgcca acacccccca 300
agtctgcaac ttcaagtttt ctggggactg ccacaattct cgtggccagc aagggatgtg 360
cgtcgtcggg gctatcaaca actacacgga ccagctctac agctacggcc agaagacttc 420
gtataacctg a 431

<210> 16042
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-G7

<400> 16042
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atccacagcc tggaggagtg gagcatccag atcgaggagg ccaacagcgc caagaagctg 180

gtggtgattg acttcactgc aacatgggtgt cctccgtgcc gcgccatggc tccaattttt 240
gctgatatgg ccaagaagtc cccaaatgtt gttttcctga aagttgatgt ggatgaaatg 300
aagaccattg ctgagcaatt cagcgtagag gccatgccaa cattcctgtt catgagggag 360
ggcgacgtca aggacagggg cgttggcgca gcaaaggaag agctagcaag gaagcttgaa 420
ctacacatgg cctcgtatagat c 441

<210> 16043
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-007-Q1-K1-G9

<400> 16043

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gggcagcgtc tagtggtcct cctcaccggt gctgccaaagg gcgctaagag actcacaggg 120
ttcgcgttcc tccggtgggc cacgaaggac gccgttgtgc agatgctctg cctctgggtc 180
tttgccgatg tgcacgacca ggcccagctg ttcaggctct ttgtggtcgc caaactcatg 240
ccattctccg cgtctgttaa tccgtggctt ggtgcagcgg ttgcaggccc agagctcggg 300
ggtttctttg ttgcctgggc tgtttttgat gcagttgtat cggttttgtt cactgtggtg 360
ccttgngtgg ttgtcatgga ccgtgatcca cggccgcctg tgcgcaatgc tgtgaaggaa 420
gggtgc 426

<210> 16044
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-007-Q1-K1-H1

<400> 16044

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gtcccgacca gaacttgctc gtagcccccgc ccccgagaac ccgacagcgc gagatggctc 120
ccgagctgat gacagccaag atgaccgcca aggccgcggc ggccggggcg gcggtgaagc 180

ctgccacgag ggcgtacgtg acgttccttg cgggcgacgg cgactactgg aagggcgtgg 240
 tggggctggc caagggcctg cgcaagggtcc gctcggccta cccctggtg gtggcggtgc 300
 tgcccacgt gcccgagtc caccnccga tctcgtctc gcagggctgc gtcgtccgcg 360
 agatcgagcc cgtgtacccg cctgagaacc agacgcaggt cgccatggcg tactacgtca 420
 tcaactac 428

<210> 16045

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H12

<400> 16045

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 gagcaacagc cctgtttcga tctcgtcaca gcagcagcag catatctccc agcaacaagc 180
 cgcagcacag atgtaccctc aaatgcatgt gcagcatttt ccaaatttca tgccatatcg 240
 acaactctat tctccagttt accccatgcc tatgccaac tattcgccaa atgtccctta 300
 tccatcaaat ggaaataatt atcttcagat gccagtgga gggtcacatt taactgcagg 360
 aagcgtgaag tatggagttt cacagtttaa accactccca tctggttaacc cttctggcta 420
 tggaatta 429

<210> 16046

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F9

<400> 16046

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 gggcggcgag gtggaggaga acatggcggc gtggctggtt gccagaaca cctcaagat 180
 catgcccttc aagctccgc cgtcggccc ttatgatgtc cgcgtgcgca tgaaagcagt 240

ggggatttgc ggcagcgatg tgcactacct cagggagatg cgcacgcgc acttcgtggt 300
 gaaggagccg atggtgatcg ggcacgagtg cgcgggcgtg gtcgaggaag tgggcgcccg 360
 cgtgacgcac ctgtccgtgg gcgaccgctt ggcgctggag ccgggcgtca gctgctggcg 420
 ctgccggcac t 431

<210> 16047

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E4

<400> 16047

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 aacaaccctt tgacgattga cttggttggc gatcaagatg aaaagcttgc tgaaggaatc 120
 aaactctatg ctatcccact cacaacaaca tcaaagcgta ccggtcttag tgatctaatc 180
 acgggttatg caaagggtgg gaaaaccata gttttcactc gtacaaagaa agatgcagat 240
 gaagtatcat tggcactgac aaacagtatt gcttctgagg cacttcatgg tgatatttca 300
 caggatcagc gtgagaggac actaaatgga ttccgtcaag ggaaatttac tgttctagta 360
 gcaacagatg ttgctgcccc tggctcttgat ataccaaagtg tgatctgatt atccattatg 420
 aattgccaaa tg 432

<210> 16048

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E7

<400> 16048

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 gatgtcttgc aactgcggat caagctgcgg ctgcggctca agctgcaagt gcggcaagaa 120
 gtaccctgac ctggaggaga cgagcacgcg cgcgcaggcc accgtcgtcc tcggcgtggc 180
 cccggagaag aaggccgcgc ccgagttcgt cgaggccgcg gcggagtccg gcgaggccgc 240
 ccacgcctgc ggctgcggta gcagctgcaa gtgcgacccc tgcaactgct gatcacatcg 300

atcgacgacc atggatatga ttattatcta tctagcttgt ggtggtggtt gaacaataat 360
aagcgaggcc gagctggctg ccatacatag gtattgtgtg gtgtgtgaga gagagagaga 420
aacaga 426

<210> 16049

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E9

<400> 16049

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acaggggtgga cgtgtacgcg ttgggcgtcg tcttctgtga gtcctgtcc ggccggaagt 120
ccatcagcag cgacgggtcg tcaccaagg gccaggagag tctcgtcatg tgggcaactc 180
cgggtgcttag cagcggcaac atctgtgacc tgctggaccc gaggtggac gtgaagcacg 240
acgaggtgga ggtcaggcgg atggcctctg ccgcgtcgct ctgcctccgg aggtcggctc 300
gactcatgcc gccgatatcg cagatactga gcatactacg aggagaaagc gcggcgagca 360
tcgccgacca gggcgcgacg gagccggact gcgtggacga cgaggcctac cccgccgcga 420
acgtgaggtc gc 432

<210> 16050

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F1

<400> 16050

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aggcccaaca ttccgacct aagtcctcga aatgggtgga aagaaacaat tcccttacat 120
ggtagatcca aacacagggg tcgccatgta tgaatccgat gacatcataa aatatctagc 180
tgatacatat ggcgatggaa ctgttccaat tatgctatca cttggtctgt tgacagcaat 240
tacagcaggg cttgctactc ttggctgtat tggaaaggga aattcctaca ttgcttcaaa 300
agtcccaccg cagcccatag agatatgggc atgtgaggga tctcccttct gtaaattagt 360

acgagagaca cttgtcgagt tggaattgcc acatctgcta cacagctgcg cacgaggcaa 420
 ccccaaacga caagaaattt tcaagaaaa 449

<210> 16051
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-F10
 <400> 16051

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 tgccctggaa atgggacaga gtaagcttga acccggtat tccatacatg aaaagacaat 120
 cacgcactgg gaggggagag atggcgagag tgtcacgtac cctcctggca aaggaccgcc 180
 taaaaagggg ggtgtgctct cgggtggcgc ggacctgttc ttgcagtga ggatccgtgg 240
 gaatggtaga catgcaaggc ttacgagaaa catatgtcgt gtggttagag atcctcagct 300
 gagtaaactc attcggatcg ctgttatatc cccggagagt ggagacttga tctccgacct 360
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 gaaatta 427

<210> 16052
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-F12
 <400> 16052

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 gaccgtttga ggaagggact ctcaagacac actttgagaa aataatattg cttggtcaaa 120
 aattgcatca aactcgtaga aaggatgaga tccatgagct gaggcaaaaa aatccacttc 180
 atactttctc tggttttgca ctttctcaag catgtccagg gaacttatct ggtgtcattt 240
 tgacgccact tgacctttgc gatggacctt cgaactcgga tgcactttct attggttata 300
 caggatccaa cacaagtggg ttaggtcttc caaacaataa ctgctctggt ggtgctactc 360
 ttctacatc aaatatgaac ttaagattac caggttctcc tggatatggt ttgggaagca 420

attcacca

428

<210> 16053
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F2

<400> 16053

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gaggctaaac attgcatatc taatgcactt acaatgatta gcaagaaaca ttacagtcc 120
atagcatatc caaacacagg cgctgtactg tgaagaagc ctactgcttg atgaaatcta 180
gatacagcat ttctacaaat cacatttcac ctgc 214

<210> 16054
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F3

<400> 16054

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cctcaccgcc acccggttctt ggaaaacagc acgctactta cttgaaagta aaggagata 120
cttgccgcgt tgggattctc caactccaac caagacgaac gatttcattc cactaatct 180
ttttcttttc ttttcgtttt ttttttaaat ttcttgggtc ggttcttgat cacctgttct 240
tccttatgac cttatccagg aaattagatt atcaggtgca ttttgtgtga ggatccagac 300
gcaagaagat ggctctcaag aagttgctgc agctcttttg tgcggaaag aaggattcca 360
agaagaaagg taaattcatc gatccac 387

<210> 16055
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F5

<400> 16055

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 cggcggaggc gcggccggcc gacgagagct tccggagcct ggtggcggac cagtggagcg 180
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 tgcgggtcccc cgactcgtcc tctaccacc cctgctccta cgacgggtca cctgcttcg 360
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<210> 16056

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F8

<400> 16056

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 accacgggag ccacactccg cgcttgcttt gctgccgggg catggacaga gcgctagctc 180
 gcctacccat cgcgatcaca cagccctatt ccgcagcgag tacaaattcc ctgctcgtct 240
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<210> 16057

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-C11

<400> 16057

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 tcttcaataa ctctctcccc cagaactccg ctgccttagc tgctaccaa ctgcagcagc 180
 agcaggctca tcaattcgac tcccatgcct accaccaaag cccctaccgg taacaccatg 240
 caccgctcta ccaaaccgcn cgacgtgtc aaacctgcgc cgacaccggg caaccagcaa 300

gccgtgctgg accgggctca aaaggccgcg agggacgctc tggaagagct cgtgaaaggt 360
gggga 365

<210> 16058
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C2

<400> 16058

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aaaagcgggc gctggccaaa ctgatggcct cctccggcta cacgttcctt gggttggtgc 180
accc 184

<210> 16059
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C3

<400> 16059

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tgaagaaacc gatacacacg ctgttatcca tgaatccctt cacatgatat aatttttaag 180
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<210> 16060
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C4

<400> 16060

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gcagggggcg ggctccaaca tcccgccaa cccaaccct gctccggggc agaagcgtgg 360
tcggggggcg cctcgcaagt acgcagattc agcccccttc gctttgacct cggcgtttca 420
aggcgccaag cgagggcggtg gacc 444

<210> 16061
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-C7
<400> 16061

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ccaagaagga ctacaacctg gcgaagcacc cgcagatcga tgtgcccac ctccaggtga 180
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cgtctgagat cgtgctgcc acgctcaaga agtctgcca gccacctggc cgccatttg 360
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<210> 16062
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-C9
<400> 16062

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atagaagagc agaatgcttt ggcgctagca attgtcccga tagatgatgt tccgggagct 180
 gctcctactt ttgagaacgg agtcacaggc tgggaactgg ccttggtgac agcaccgagt 240
 tcgaccgaga ccgccgttgc cccaagcaag aaactggccg gtggtctgga cttgctgacc 300
 cttgatagcc tgtacgacga ggcgaaccgg agagcgagcc agccggcgag ctacaacccc 360
 tgggatgcaa ccgcgtctgc cccgatgatg accaccatgg cgccggcgat gcacgatccg 420
 ttctacgcc 429

<210> 16063

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-D10

<400> 16063

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 gggcggcggc tgcggctgtg acgtgcttca gcgggccctc cctgtcagtg gggcgtgaag 180
 aggagggtgt agcagtgggt gtggggaggc gtgcgttggc ttccgcagca gctgtcgcct 240
 cagtgccttg gtttgcaggc cgtggtctgg cgccaacca gggcctgctc gccgggagg 300
 tccccggctt gtctgaacct gacgaaaatg acaggttgga gaacgtaccg catgccagac 360
 gacaagggtc gggggcacgg aattggctgg agcccatca ttccgtacag cttcaaagtt 420
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<210> 16064

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-D11

<400> 16064

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 ggtgatgacc tggtctacga gcacaccctg accttgactg aatctctgtg tggcttccag 180

attgttgtga ctacttggga taacaggcag ctgctgatca aatcaaattc ggtcgaagtt 240
gagaagcctg attctttcaa ggcgatcaac gacgaatgca tgcccatgta ccagaagccg 300
ttcatgaaag gcaagctgta cattcacttg tcggtggagt taccagactc gctaaacccg 360
gagcagtgca 370

<210> 16065
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-D12
<400> 16065

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gagctctgac gctccggcag gcggtgctga ccgccgcggt gctcgagttc tccggcgcag 180
tcctcatggg gacccatgtc accagcacca tgcagaaggg aatcctgggt gcgtctgcgt 240
tccaagggaa ggactctctg ctcttcgctg gactcatatc ctcccttget gctgccggta 300
catggctgca ggttgcttcg tcatatggct ggccgtgtct aactacacat tgtatcgttg 360
gggccatggt tggtttcggg ctggtgtatg gaaggggtgga tgcagttttc tggagttctt 420
tggc 424

<210> 16066
<211> 140
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-007-Q1-K1-D3
<400> 16066

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ataataataa tacagacatc tgtgaaatag tttgctcttg tgctgtacta caactcaaac 120
gtaagaaatg gattcgatct 140

<210> 16067
<211> 140

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-D4
 <400> 16067

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 ataataataa tacagacatc tgtgaaatag tttgctcttg tgctgtacta caactcaaac 120
 gtaagaaatg gattcgatct 140

<210> 16068
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-D8
 <400> 16068

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 ggcgtcatcc cagcccttgt agacttatca gtgagtggaa ccaagggtggc aagggtattgc 120
 tcggtcaagt tgcttcagct tctgaggaac ttcaggcgat gtgaccagtt cagcagttca 180
 tgctcaagag agcttgctgt cgatcatggt tcagagaaca ctgcgaatgg ttcaatttgc 240
 atgcagccga tatcaaagtc agcccggtat atttcaagaa agctcaacct tttctcaaaa 300
 cctcgggtcgc tgaccctggc ttgagaaatg gaaggggtcg gttggatcga gccctattcc 360
 gcagcgctaa ctgccagatg tacagatagt agcaggtagc gttcgtcgag atgaaatggt 420
 tgtg 424

<210> 16069
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-D9
 <400> 16069

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 attcaatcga agaaaagatc ttcagcaatt aattaccgaa gaaaagaagg ctctgtatg 120

acatcaaccg gaaccgtag tcgtgcttgc gactatcgcg tcgaattagt cagggtaagt 180
 tggttcgtat tcccattaac taggtctata aatagattaa atagaattgt tggtcacaat 240
 aaatattatt aatttagcat gcgtatattg tgatgattga tttagataac tcgctaaatc 300
 aactaattaa gttacacagt ttagagagtt aataaaaagc ttagaataaa aatagatttt 360
 ctagtgtaat atgtcaattt gattaatgga tatagtcgat gtcctgctgt gatatccatg 420
 gtgcttaatg ctt 433

<210> 16070
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-E1

<400> 16070
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 gacaacacca agtactatga gatcctcggg gtgcccaagt cggcgtccca ggacgacctc 180
 aagaaggcct accgcaaggc cgctatcaag aaccaccccg acaagggcgg tgaccccgag 240
 aagttcaagg agctcgcaca agcctatgag gttttgagtg atccagagaa acgtgagatt 300
 tatgatcagt atggtgaaga tgcccttaag gaaggaatgg gtggtggtgg atcccatgct 360
 gatccatttg acattntctc atcattcttt ggaccctctt ttggaggaag tgggtgga 417

<210> 16071
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A2

<400> 16071
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 ctttgcgagg tttggtgaga tcgaggaagg cccgcttggt cttgacaagg tcaactgggaa 120
 acccaaggga tttgctcttt ttgtctacaa gaccattgaa agtgccaaga aggctcttga 180
 ggagccacat aagcattttg agggagtgat gctgcactgc cagaaggcga ttgatggacc 240

aaagccgaac aaattaggag gagctggagg ttttttcggt gctggagctt caagtggggg 300
 caaggggttt gctgggttatg gagctactag tcattctctg cccggaactg ttggtattgt 360
 ccagccaatg tcacctctgg cacctggatt ggcttcattg cctggtggtta tttctgctgc 420
 cccaggtgtg gatcctgctc 440

<210> 16072
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-A3
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 gagtcgtcag ggatggcgtc ggagccggtg gcgcgggcgg tggcggagga ggtgggccgc 120
 tggggcagca tgaagcagac gggggtgacc ctgcggtaca tgatggagtt cggctcccgg 180
 cccaccacgc gcaacctgct gctcttcggg cagatcctgc acaaggagct tcccatccgg 240
 tttgcacgcc gcgcgctcga gctcgactcg gtgccctttg gcctcttcaa caagcccgcc 300
 atcctcaagg tgcgggactg gtacatggac tcattccggg acatcagata ctttcttgaa 360
 gtgaggagca agaacgacga gtcgctttc acgcagatga tcaacatg 408

<210> 16073
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-A8
 <400> 16073

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 agagaagaga tggaaagtac ttgtgtggaa gactgctgtt tatcttatca ctctcggtat 120
 gtcattgca cttctaattg gactgaacat gtcctggact gcaatcactg cagctcttgt 180
 tttcttgga ctcgatttta cggacgcaca agcttgtctt gagaaggtgt catattcact 240
 gctgatcttt ttctgcggga tgtttatcac tgttgatggc ttcaacaaaa cgggcatacc 300

gaacacacta tgggagtttag tggaaccata ttcacgaatc gatagtgcga aaggtgttgc 360
acttcttgcc gtggtgattc ttatcctttc aaacgtggcc tctaattgtc ctacaggtaa 420
ttnttcttac gcatatg 437

<210> 16074
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-B10

<400> 16074

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cctctgcccgc tcgtctccat ctctccatct cccaaaagac cgcgccctagc tccagccatg 120
agcgccgacg tcctctctct gtgcttgatc tcccagtcct ccgctccctg aaaccttcac 180
ccacatgttt gtgaagggtc ggtagtggag atcttggcaa ggtccctggc ctgcgctcct 240
attccacctg tctcatcccc ttatcatgct cgacacttgc tccctggcag catgtcgtag 300
cagcatctgt gottactgtg ccgtgctgtt tctctgcacg cgtcaagctc tcgcgctgaa 360
tccagcccca tggtgacgag ttcattgttc agcttgtcgt gccgcgtcgt cat 413

<210> 16075
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-B11

<400> 16075

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atggaaaatg gggcgaacac gagttggatt acctcttggt catggttcgt gacgtgaagc 180
tcgacccgaa tctgaagag gtggccgatg tcaagtacat gaaccggcat cagctgaagg 240
agctgctcag gaaagccgat gccggggaag atggcggttaa gctctccctt tggttcaggc 300
tggtggtgga caactttctc atgggctggc gggatcatgt ccagcaaggg actctgcaag 360
gggcaacaga catgaaaa 378

<210> 16076
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-B12

 <400> 16076

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 atggcttact accaggaggt ggactactgc tcggaggagg tgaggtcggt ggccccggcc 120
 ggcttcggcc gccacggcgg cggcgtccag cagcacgtcg tcaaggagaa gtctgaggag 180
 gtcgacacgg tcgcacgcgc cggcgccaac caccaccacc accatggtca ccacggcggc 240
 cacggcttcg tgggtgcgcga gaccagggtc gaggaggaca tcaacacctg caccggcgaa 300
 gtccacgagc gcaggagag cttcctcgcc agggctaact gagcagcccg ggcggccggc 360
 atccacgccc gtctgtgcct gcctgcgtgc cttatgtatg tctgtgattg tgcagggtca 420
 tcgtacttgg c 431

<210> 16077
 <211> 162
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-007-Q1-K1-B3

 <400> 16077

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 ggaggaggcc aagaaggtgg aggtggaggt caccaaggag cccgaggcgg cggcgaagga 120
 ggacgtatcc gatgacaagg ccgtcatccc cgcgaccgac cc 162

<210> 16078
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-007-Q1-K1-B4

 <400> 16078

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tgtatcatgt caagaagaaa tagtggactc tgcgtcttaa ccgtctgttt ccttgtcatt 120
 tttggttcat ggtaaccatt ttctagttaa ttttatgagt ctgctttcgt ggtaagggtt 180
 aaattaagggt cagtagtgat gtgtaaataa ttgttgcctt agcaacatca cttgctgaat 240
 cagcctgttt tgcttttctt ctaacagtgg aaagctgcaa aagaggaact tcgcgacgaa 300
 gacgaagagg agcctgaaag tgctctggag gcattagaaa ggaagcggca aaaggaaata 360
 gaggaatggc ggaaacaaca gatagctagt ggagaagctc anganaatgc caattttgtt 420
 cctgttcgtg gtgattggt 439

<210> 16079
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-B5
 <400> 16079

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 ctgactcgcc tcccttcata acatctccct gtgttatgca aagcgcacaa ggatctcccc 180
 tctggcactt ctgttttttg gaatgaagat gctcagaggc gttgttatga agtcccgatc 240
 caatgttctt tgctctccat gtctgtactg acttttagcta tgcactcctt ttgtcacccc 300
 agtccattgc atgtgccatc caatccgttt cgaaccattc atctcaaagt tgcatttagt 360
 ggtgggtttc ccttcgtctt aatatctttt gtgcctcatg aacctggagc atgccccata 420
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<210> 16080
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-B6
 <400> 16080

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 ccactgcatg ggaggataag aagtgtaaag gtgaatctag attcccagcg caggtgagga 120

tccgcgtag gaagctctgc aagccgttgg aagaggattc cttcaggcca gttttgcacc 180
 actatgatgg tccaaagttt cgcctcgagc tctccatcgc ggagaccctg tccttgctag 240
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 caatcatcct tgtatgttct gtggatggtg gttggcaatg ttgtttatatt ttcaagcgca 360
 agctgctgcc ggtctcgttt tcctgtcct ggatggaagc aaagggacct ggtactttga 420
 aggccccccc tcaaacataa 440

<210> 16081
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-B7
 <400> 16081

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 gtcggcgctg gcgtcgtcgt cgccgtggcg cgggcgcgag gaccacctcc acggccacgg 240
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 accgtaccgc cggcgttgct cgttttgctc tgccctgcaat ccgccccgca cggactgtac 360
 tgtactgtac ctatacacct atatactacg acgtgcacat gtacgagtct acgacgtgct 420
 gctgtaccat a 431

<210> 16082
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-B8
 <400> 16082

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gcctgcttcg tgctctccgc cgcggactcg ccggcatctg cggcgcgcaa cgatggcgcg 240
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 gtggtggctg ccaccgtcgt cgggttcctc ggttcgcggt ttggcaccgt cggcggcgctc 360
 ggcgaggcgg ggatcttcgt gccatgctc aacctcgctg tcggcttcga caccaaat 418

<210> 16083

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-B9

<400> 16083

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 gggcgggcggc ggtccgcgctc ggcgcggtg ccgccgggga gcacggggct gccgctcatc 180
 ggggagacgc tgcggctcat cgcggcgtag aagtcgccga acccgagacc gttcatcgac 240
 gagcgcgtgg cgcggcacgg cagcggggtg ttcacgacgc acgtgttcgg cgagcgcacc 300
 gtgtttctcg ncgacccggc cttcaaccgc ctgctgctgg ccgcggaggg ccgcgccgtg 360
 agctgcaact acccgctg 378

<210> 16084

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C1

<400> 16084

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 taaagaaact gattcagaaa ctgatcgtga actgaaactc cgtgtgctgc gtatttatct 180
 gtccaggctt gatgaaagaa aaaggagaaa agagttcata ttggaaagga atttattgtt 240
 tcctaatacc ttggagaagg atcttacaaa tgaagacagg gaagtttacc atcggataaa 300

ggtcttcatg cgttttcttt ccaaggagga aca

333

<210> 16085

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A12

<400> 16085

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atgcagggtg aagtcaagag gacagttccg aggggaagaga tgaataccaa agatggccct 120

aagacaagaa agatcttcat cgggtgggcta cctgcatctc ttactgaagg ttggtgtttg 180

ctatcaacaa acaaagtgtg aattcatttt gtttatgata ctgagaaggc acaaaatttc 240

agatgagttg aaggatcact tttcattgta tggtaagggtg ctcgaacatc agataatgct 300

tgatcatagc actgggcggt ctagagggtt tggttttgtc acttttgaaa gtgaagattc 360

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gttaattttt ttg 433

<210> 16086

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-G6

<400> 16086

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gctgtggccc gcggtggcggc ctgcctcctg gagaaggacg tgccgttcca gatcgagccg 180

gtggacatgt ccaagggcga gcacaagtcg ccgtccttcc tcaagctcca gcccttcgga 240

caggtccttg ctttcaagga ccacctcaca accgtctttg agtcaagggc tatttgccgt 300

tacatatgcg accagtatgc ggactctggg aatc 334

<210> 16087

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-006-Q1-K1-G7

<400> 16087

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gcgcggggcg tccggcgtag ggacggcgcc ggcggtgcac ggaggagcag gaggcagcagc 180
accgcggagc ttctcgacct gctcgggatc tcagcggatg ggagccccga tgatgttcgg 240
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gccgagaaca cgcgccgctt catcgagggt caggaagcct acgagacgct ctccgaccca 360
agccgcgggg ccagctacga ccgtgcactc gcccgcgggc tctgccgnct cgccttctcc 420
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<210> 16088

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H10

<400> 16088

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gaaaactaca ttatggtctg gaagggtccg atgaacagtt agggaaaagg gcgagatgat 180
ggtaatctag ttatctggtg taacctgtac tgtactctac tgaataagat ggcttggtac 240
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<210> 16089

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H11

<400> 16089

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gggtgcattga acaatccatg acgtgctggtg gtcactttca tagcacgagg gcgatcgacg 180
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gccaggcagc gcatgtcgaa ctgaagatca agatagcacc gcgtctccgc tagtaagaca 300
gtgcactatc tcgattacca agtcttgatt caccgatactc tcaaggtaaa aggtggagac 360
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attgc 425

<210> 16090
<211> 98
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-H2
<400> 16090

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cctgttccac aaagcgcggtg caccgctgca gcggtcca 98

<210> 16091
<211> 452
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-006-Q1-K1-H3
<400> 16091

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attgtaatgc atatgaacaa caatcacaat tgtagctgag tttctttgga agcaccctt 180
taattccatt ctgttggttg aaagttgaaa ctatggctta tgtatctgcc aaggatgaac 240
caggacggat gcatttactg gagatcacac ttgccatggg ctattccaaa agtcctcctt 300
caatctctac agttagtctc tatectaata tttccataaa ctaagtctng ttttattata 360

ctttgctata attgaacttg tctcattaac aggacgtacc atatcttcca aaaatacatt 420
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<210> 16092
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H4

<400> 16092

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 ctaatgtcat agtgaaggac tttctgatct tga 153

<210> 16093
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H5

<400> 16093

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 gtggtagcag agaaaagaac aaaagtggaa ccaaaactgg tactgttatg gacaaattgc 120
 acaatgacaa aaagttctcg cctggacatc attattccaa ggccagccat gagtctcata 180
 atccagtgga agaacatcaa ccacatggat cagatgataa ttccaatgaa acaagagatg 240
 gtgttggtgg caatgaagct cctgttgtgt caacatccag aatggatgcg atgaataaaa 300
 ttgacaagga taaggtaaaa gcagctttgg agaagcgaag gaaatcgaaa ggtggttttg 360
 ccacgaaggt aaatgtgatt gatgatgatg atctacttga gagagagcta gaacaagggtg 420
 ttgagttggc tgttgagttt g 441

<210> 16094
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H6

<400> 16094

accgcactga gaaaccaaac cagcaagcga agcccagcaa gaaaaccaca tgccccacct 60

cgccgccact cccccactt cctccgccgc cgtcgtcccc gccgcggggc gcatcgcggtt 120

ccggcgcccc tggaacacgc cacagccgga agcgtgcggc ctgcgcctcc ggctgcgcg 180

gcggggcgtc cggcgtgagg a 201

<210> 16095

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H7

<400> 16095

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gccgccatgt cccagatcct ccgccaccgc ctgtcggttc actaccacgg agtctcgggc 120

cactgctgcc gccgcctcag ctctccgtc tacggcgggc gcgggagtcg ccgcgccgtc 180

gccgcgccgc cgcaggacgg cgagggcagc cgagcgggtga ggggtgtctgt gtggtgggac 240

ttcgagaact gccacatccc caacggcgtc aacgtccacc gcgtcgcccc gcgcgtttcc 300

gccgccctcc gcgcgcggcg cattcgtggg ccgctctcca tcaccgcctt cggggacgtg 360

ctgcagctcg cgcgtcctt ccaggaagcg ctgcgcgcca cgggcgtctg cattttccac 420

gtcccaagca gtgggaag 438

<210> 16096

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-A10

<400> 16096

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ggcgccaacg cggggggcca gcgcttcgcc ttcgaggcac ggcaggccgc gcagcggctg 180

gacagcaggt tctcatctc ccggaggctc gcagacgctt cccgtgccgc ccgcgcccgc 240

gcagttgaga tcgacgccga gttcgggatt cggcggcgng ggcgctcctt ctctgtcgac 300
 ttctcccga actggcccag gtatcggagg gacatcaatg acttcatggg aactcccatc 360
 gggagagcat tagctacaat atttttcctg tggtttagcac tgtcaagggtg gttgttcaga 420
 attntcattt ttgg 434

<210> 16097
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-G5

<400> 16097

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 ctattcttgc ctgaggaata tccaatggct gccccgaaag ttaggtttct caccaaaatt 120
 taccatccga acattgacaa gcttggtagg atatgcctcg acattcttaa ggacaaatgg 180
 agtcccgtc ttcagatacg tacagttctg ctacgattc aggcattctt gagtgcccca 240
 aatccagatg atcctctctc agacaacatt gcgaaacact ggaaatcaaa tgaagctgaa 300
 gcttttgaga cagcgaagga gtggactcgc ctgtatgcaa gtggggcatt gtaaccaagt 360
 gttgtttcag atgtgatgtt ataacatttc catagtttgg ggccgactga ataccctctt 420
 tgcttgatga gagcaaatt 439

<210> 16098
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A11

<400> 16098

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 tgaggtcgaa tggcgcccggt ctacgtgcc gcggaccacg gcaccaacgg cggctccggc 180
 ctgaccctga acccggtggc ggcgcgccgg gcgctcagcc tcgtcggcgc gccacgccg 240
 tcgtcgtcca cgccgccggc gtacgggagc atcgtcaccg tgctcagcat cgacggcgg 300

ggcgtgcgcg ggatcatccc gggcaccatc ctcgccttcc tcgaggagaa gctgcaggag 360
 tacgacgagc ggccggagcg ggggctcgcc gactacttcg acgtgatcgc cgggaccagc 420
 accggcgggc tggtea 436

<210> 16099
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-006-Q1-K1-E7
 <400> 16099

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 ttcatgata agaccttctc gattgtagcc aatattttat tgcaaataat tccgacaacc 120
 tccggggaaa aaagggcatt tacttattat agagatgggtg cgatttgact cttttttttt 180
 ttagccctac ctatatctca ttcttacgag aaagagagag ggttcgcata gagagaacaa 240
 aattagtaaa ggaaaccgc gcttggggaa ggtgaggtga actaacaatt ctttctgtag 300
 tgtatcctcg attgatgtgg cctaagatgc ttcaattgta gatttgagta ttgagcgaat 360
 ggtttcacc 369

<210> 16100
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-006-Q1-K1-E8
 <400> 16100

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 ccctgacccc aagatcagga tctacgatgt cgggatgaag aggaaggggtg ttgatgagtt 180
 cccctactgt gtgcaccttg tctcttggga gaaggagaat gtctccagtg aggcgctcga 240
 ggctgcccgc attgcctgca acaagtacat gaccaagtct gcaggaaagg atgccttcca 300
 ccttaggggc cgggttcacc cgttccatgt ccttcgtatc aacaagatgc ttttctgtgc 360
 cggggctgat aggctccaga ctggaatgaa gggt 394

<210> 16101
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-E9

 <400> 16101

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 tgtccgcgtg gggctttccc gccggaaacc caatgaattc aaggcggcct tctaactacc 120
 cgtggcaactt tccgccgtcg tccgtgccgg ggcgggctgg gactctgagg gcaacgtatt 180
 gaagaactac tccttgttct ggggtggtggc ctacccaaac ctacttgggtg ctgcac 236

<210> 16102
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-F10

 <400> 16102

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 gaaactcaca ggacggcagt attttgaaag tggaaggcat gcagtgaaag gagcaagcac 120
 agttgctgat gaagatgaag aaaaggagga ggatattgaa ttcgatgatg attttgaaaga 180
 cgatgaacag gacatgcttg agcattatct agctcaacaa tcagagaact cagcagctta 240
 accttctagg ccaaacaag taccttttcg ggcgcagctt taccttagga agccaaatgt 300
 tgttatatgt tgcaactgta gctctagtgc gcactatttt ttttttatgt ctctcatcat 360
 ttggttgat ttgtggatgc tttctagttt tatcaagggg gcttgggggtt ctcattaata 420
 tatacgtt 428

<210> 16103
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-F12

 <400> 16103

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atgatgtcat acaactttaa gttaaaccag ctgcgtagct attttagtgt atgaatcatc 120
taccttggtc atacatcttt agtgaataga gtgtatctgt tgcccttatac gatagatgaa 180
ttaacaagaa gccccttcgg gagttggaga gtctctacga gattttggtg tttcagtgga 240
gctgtggcga ctacttcaag atgtggcata taccgttaca cccaattacc tgtagccatg 300
cacggatggt agaggacaac catggtttga ggtatgtatg catattacag aacgtgctag 360
aagccatggt ggtcacattg gatgtttcat gctgaaggaa ttaactgctt ggaagggtgct 420
caagta 426

<210> 16104
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-F4
<400> 16104

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aggcgtgcgc ggatatgggg cgccgcggct cctccgaccg cctcgaggcg ctctccctcg 120
agatcgagcg caagctgcac aaggccctga tgtccaactc acagcgtctt cagatacttc 180
agcaattggt tgctgacatc gcattgaaag tggatgaccg cgctcgagat gcaattatga 240
gtgagaatga tgatggcatt gctccagcag atgaacggga agatgggtgg ctatgcttct 300
atg 303

<210> 16105
<211> 536
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-006-Q1-K1-F5
<400> 16105

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gagcccagca gtcagtnccg cgggcgaatg ggcggctctc ccaatgatcc ctctcgttnn 120

cagctcttgg nncggtggcn gennctcagg nnngcctgct cgccnnncct cggctnnngc 180
 cgtcgcctcc nnntccttcg ctgcnntcgt ctggctcccc aagaagaaag aatcaagtac 240
 ccgtnacaag ccctaccggg nnattggggg ggtggcctga ctcgctcngtn acgtcgactg 300
 ccaacctggg agaaaggggc aanggggcat agggggcggtg taccagtnn ntcgtcgacc 360
 aaagtacgnt ngcgctaacc cgtcgaccgg gatacccagc tccaatctta ccaaccgagt 420
 gatgaaactg gggctcctcc aaccggcgaa acgtctaccg tnncggtgga naccactnn 480
 ngggcttctg ggatccctgg gccccgtca cccttnegct tgggaatccc ctgggc 536

<210> 16106
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F7

<400> 16106

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 tggccgtagg gcttgcttct attgggcccg gagttgggtca aggtactgct gcaggacaag 120
 ctgtagaagg tattgcgaga cagccagaag cagaaggtaa aataagaggt actttattgc 180
 ttagtctagc ttttatggaa gctttaacaa tttatggact ggttgtggca ctagecgttt 240
 tatttgcgaa cccttttggt taatcctaaa aaagaaaatg agtccttttag attagatact 300
 tttttctttt tttagtacat tggcatttgc ttatgtaatt ctaagtatat caatacttta 360
 ctttactact atttattata ttatttcttt tttatattat tccggaaatt ttgtatctat 420
 cgggacag 428

<210> 16107
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F8

<400> 16107

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 gg 62

<210> 16108
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-G1

 <400> 16108

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 taccacaagc cgcgtatcgt ggaggtgtgc atgaagaaca gggctctgccg ggacagggag 180
 cgggacggta tggagcacia gcacccctt aaggtctttg agatcacgcc gtctcctagg 240
 tgccttagtg ttcgtgctt tctcaccaac a 271

<210> 16109
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-G10

 <400> 16109

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 agcgggtgct ggaggcgcat cataggagg aggccatgga gatgagcgac ctggacctgt 120
 ggaagcacga gaagccgtca aggatctgcc ctttgccccc gtttctcccg t 171

<210> 16110
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-G3

 <400> 16110

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 tggacgcggt tccgcttagg acgcagcttc gtatgcgtat acctgaccag gagccgacga 120
 tacccttaac attctatgaa ctgctccgga tctcagtgga tggtagacct gatcatcttc 180
 ctgtattata 190

<210> 16111
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E6

<400> 16111

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gcattgctct gattctgac acaatttggg ggggagtagg tgagatagtg agattgagct 120
tcttgaagaa aatgtttgtc ttcagcttaa catggcatat gaacatatgt gacgtgtaca 180
tactttataa cctaagggtt gtagatccag ggatcttatt tgcgttcg 228

<210> 16112
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C9

<400> 16112

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gctagttctc gccgttacgt aaggcttctt ggccttgctt cctccgtctt tcgttgetga 120
tacatcgagg tattaagaa gctgcctggg tccgggcagc agatgtcgcc gccgtctgca 180
acaatggccg acttctcctg gctcacggtg cttggcttcc tattgcttac cttcaactca 240
ggcatggcga tttatcggtc cgacggtgac tctgctccg tcggtttcgt cgtgggtatct 300
tatctagacc tgggtggacct gtctgcctgc ctgcgctact acgaacagat ggatcatcag 360
tactcccaaa agcgctcgta ggtcaaggct ggtagtttgg aaccttacga ccct 414

<210> 16113
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D1

<400> 16113

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catggcgccc aaaaagaagg tgaaccgcta cgacgagagc tggtcgaagc agtgggttcgg 180
cgcgggcatc ttcgcggagg gcagcgagga ggtgtccgtg gacgtgttca agaagctgga 240
gcggcgcaag gtgctgagca ccgtggagaa ggccggcctg ctgttcaaag ccgaggagct 300
gggcctgacg c 311

<210> 16114
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D11

<400> 16114

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aaggctttat gctcaatgca aggaataggg aaatgttgaa gacttgtgca ataagaaaga 120
aagagaaaag gcaatgttgc ccctgtagta cttaagattc atatgtgcaa gcttcatggg 180
cattcttcta atttcataca taggtatata tcgcccttat aaatagagaa acagttctat 240
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cgcgctgttt cttgtgtcaa gacgaaggct gatgcaccac tggctaacac atccatatac 360
gtagagtata tccatagggc gatgcatgga agtgacacgg gtgcata 407

<210> 16115
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D12

<400> 16115

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ggctttatgc acaatgcacg gaagagggaa atgttgaaaga cttgtgctat aagaaagaaa 120
gagaaaaagc aatgttacct ctgtagtact caagactcat atgggcaagc ttcattgggca 180
ttctcgtcat tgcatacaaa gctatatctc gccctataa atcgagaatc agtactatgc 240
ataaattcac ct 252

<210> 16116
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D2

<400> 16116

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catggcgccc aaaaagaagg tgaaccgcta cgacgagagc tggtcgaagc agtggttcgg  180
cgcgggcatc ttcgcggagg gcagcgagga ggtgtccgtg gacgtgttca agaagctgga  240
gcggcgcaag gtgctgagca ccgtggagaa agccggcctg ctgtccaagg cctaagagct  300
gggcctgacg ctcttctcgc tggagaaact gggcccgcctc ttcaaggccg aagacctggg  360
cctgctcaga ctcttcgaga cc                                     382
  
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<210> 16117
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D5

<400> 16117

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ctgcaccaat ggcttactac caggaggtgg actactgctc ggaggaggtg aggtcggtgg  120
ccccggcccg cttcggtcgt cacggaagct gcgatcatca gcacgtcgtc aaggagaaga  180
tcgaggaggt cgacacggtc tgacgcgctg gctccaacca ccaccaccac caccatggtc  240
accacggcgg ccacggcttc gtggtgcgcg agaccagggt cgaggaggac attaacacct  300
gcaccggcga ggttcacgag cgcaaggaga gctatctcga cagggctaac tgagccgccc  360
ggctgtcggc atccacgctc gttcgtgcct gcctgcgtgc cttatgtatg tctgtagttg  420
actggttgtg caa                                     433
  
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<210> 16118
 <211> 228
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D6

<400> 16118

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gcagagctca tgctcactct aggtggagct ttgcgcgtgt gccatgtgtt gctgggtgtg 120
ctgctgccgc tgcctggagt gcatccataa catcgtccct cccctcagca gccttcctct 180
cctccgcttc tccggcccag ctctaccagg tggaggtgga ggtggagc 228

<210> 16119

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D7

<400> 16119

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cttaagggtg tgtctctcag tcgtcgagga acatgtgcta ggggtgtatac ctatcaactc 180
ccaaaaaacc caactctgcc ttacgtaaag ttgccagagt acgattaacc tctggatttg 240
aatcactgct ttatatacct ggtattggcc ataatttaca agaacattct gtagtattag 300
taagaggagg aagggttaag gatttaccgc gtgtgagata tcgcattatt cgaggaaccc 360
tagatgctgt cgcagtaaag aatcgtcaac aaggcgcttc taaatatggg gccaaaaagc 420
caaaaaata agtgattcgt ttttagccct tataaaaag 459

<210> 16120

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E10

<400> 16120

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acagcagcag atgcagctgg atgcaccaca cgattcaca aatcaacagc agcagcaaca 120

gcaa atgcc a atgacatata atcagcagca tatgatgcc caaactcagc agcagcagca 180
gcctgcagtg aagctggaga atggaggcgt cctgggtggg gtcaaactgg agcagcagat 240
ggggcagccg gatcagagtg tttccacaca gatgcaacgc agttcgagtg gcggtgtgaa 300
gcttgagccg cagttgcaag cgctgaggag cttgggtgct gtcaagatgg agcaccaaag 360
ctccgatcca tctgtggtcc tgcagcaaca gcagcatcaa cagcaacgac atat 414

<210> 16121
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E11

<400> 16121

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agcagagact acaatgtgga catggtgcc aagtttatga tggcacatgg gacattgggtt 180
cgagaccctc attcacactg atgtgacaaa gtacttgtca ttcaaagctg atgatgggag 240
ctatgttttc agcaaagga agatttacaa gggctcctgcc actgatatgg aggcgtctga 300
aatccccctt gatgggtcta ttctgaagc gcatagcaag gaacttcttc atttatgtcc 360
aagattacaa tgaagctgat ccaaggacac atcaacgtat agaccttact agggggacaa 420
ct 422

<210> 16122
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E12

<400> 16122

ggctgggact ttttggtcac caagaagtcc aaccggcct ccatcaaagc ccacaaccgt 60
cgtaatcgct acttccccct cgatcgctgt cgacgacgca ttcaccccaa cctttctccg 120
cgaaatagcc gtcgccgcag ctccggtat gtcaatcttc gagtacaacg ggtccgcogt 180
ggtggcgatg gtggggaaga actgcttcgc gattgccagc gaccggcggc tcggcgtgca 240

gcttcagacc atcgcaacag acttccagcg ggtgttcaag atccacgaca agctctacat 300
 cggcctctca gggctcgcca ccgacgcca gacgctgtac cagcggttgg tcttcaggca 360
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<210> 16123

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C8

<400> 16123

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 gagttcacc gcacgcgcgc gagccatggt ctcttcacc tgttcccagg tcggcgcgac 180
 ggcagcgggc ggagcctcgc ccttcacgcg ctaccggtgg cggagcggcc ccgggggagc 240
 cactccgctg agctccctct tcgttgcccg gcggctggca gcggtgcaga tgcgcgcgcc 300
 atctcgcggg gcccgcgggg gctccgcgct gcgggtcacg tgcgagaagg tggtagggat 360
 cgacctgggc accaccaact ccgcggtcgc cgccatggag ggcggaagc cgacc 415

<210> 16124

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A8

<400> 16124

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 cggcgggcct gctgtgggtg cccgggacga gcccggtggc gacgatggac gcggggccgt 180
 cggcgagggc gcaggagatc gcgcggcggc gggaggagat gctggggatg ctgcgcgacc 240
 tcccggagtc cgagtacgag ctctcgtcga ccgacctcgt cgagaaggcc ggggccgaag 300
 ccgaagccga agccgaagcc gcgcccgcga ccgtccccac caaggcagag gacgggaagg 360
 acccgggcgc cgcgcggtcg gcggcagctg cggtagggca cgagcggagg gcgtcagcgc 420

ggc

423

<210> 16125
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A9

<400> 16125

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catcgccatg gacggcggat actacggcgg tcgcgatcag cgctacagcg gcgggtacta 120
cggcggcgggt ggcatcgcaa cgccggggta cgctccggcg gtcccggacg ggatgtcgca 180
ggatgaacatc gaaggcaacg ggtgcaggcg gtcgctgcct ccgcagccga ccgtgaaggt 240
gtactgccgc gccaaaccca actactccat gagcgtccgc tacaggaagg tcgtgctgtg 300
cccggagaac cccatggacg agtactatth actggatcaa g 341

<210> 16126
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B2

<400> 16126

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aactccggag gtcgaaatgg ctgcgggctg gccgcgagcc caggagctgg cggagaggga 120
gatgggcggc cgacatggac ttcacgacgg cgcgacgca ctacatgtac ggctgactcg 180
gcctttgctc gccgaccag agggccatga cgactccgcc catctcacga ccttcgactc 240
ggcgctcatc agacaaatth ctgcactagc atccctcgat cgttggatag ggacctacca 300
tggtggagac ggttgaccga gaagtaggat tcgattacgg ccagatagcc tgagtaacgg 360
ctacca 366

<210> 16127
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B3

<400> 16127

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aactgcggag gtcgaaatgg cggcggccgt gcggcgagcg gaggagctgg cggagagggg 120
gacgggcggc cgccatggca tccatggcgc 150

<210> 16128

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B4

<400> 16128

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taagctagcc aagacaggaa taataatggc ggagtcgacg gtggcgagcc tttctgtccc 120
ggtgacgacg acgaccttcg cgggggcggg cggcggcgac gtgctgatcg gcgttccgag 180
gagggcgggc gccaaagcgc tegtctggtt ccccgcgggg gcgcgccgcg gcggcgggcg 240
gttggtcgcc gtgcgggtcca gcgggccggc caccgcgtcg gagatcttcg acaaggtgtc 300
ggagagcatc aagcaagcgg aggagacgtg cgcggaacgac cagaaaggcg acgccgagtg 360
cgcggcggtg tgggaagagg tggaggagct t 391

<210> 16129

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B5

<400> 16129

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ctcctcgtec tccaccaccg ccgtcgcggc gctccccagg aatgggcagc agcgggcgtc 120
gtcgtcgttg ttctctcct gctgctcttc ctccttcttc gtcggcaaga cgctgctgag 180
gcaggccgag gcagcccggc cgctgcttcg cgtgcgcgcc gcggcggatt ccgacaggcc 240
gatctggttc cccggcagca cccctccgtc gtggctcgac ggcagccttt ccggcgactt 300

cggtcttggat ccctggggcc tcggatctga cccggagagc ctgcggtgga acgtgcatgc 360
ggagctggtg cactgccggt gggcgatgct cggcgcggcg ggtatcttca 410

<210> 16130
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B6

<400> 16130

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taacagggtc cttctccaa cttctttta gattcggtct catcttcgtt cctgccattg 120
gttgaggaa ctgccctatc accattctca ttggaggaga gtgttgatga gacatccata 180
acgggcctgt cagcaatctc agttgtagta agagagccag acagttttgt ttcaagagct 240
ttcctatgca catcttgga ctggccatct ggagcaattc cctgtgattg tgaagctgct 300
gagtgatagg caggcccagg cttggagctc aagttttcca gaccatcaga ttgtgaacca 360
cacttgagct gcgtgggagg gacgctcgac cgggtggtgg gcagcggcag tggttgtatc 420
cattc 425

<210> 16131
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B7

<400> 16131

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agtcgccgat gaggacgggt acgacgcggc gtaggagtcg aagccctgat tctgcatgat 120
ggccagcgcg gtgaagctct ggtacgacgc cggcggtctg ggcagcggcg cgtcgccgtc 180
gaggtactgc accacctgcc gcatcgacgg ccgcgcggcg ggcaccgggt gggagcacag 240
caggcccagc ttcagcacca gctcggcctc gtctgcgggg tactcgccgc agagccgcgc 300
gttcgcggcg tcagcgagcg cggcgtgtg ccagagctcc agcaccagc ccaccagcac 360
gaaccggccg tcgtcgtcgt ctccgcggtg ttcgcgctcg attggcc 407

<210> 16132
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-B9

 <400> 16132

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 ccgcccgtgc ccacgacgac ctgaagggtta ccgagctccg tcttggtctg ccgggggtccg 180
 gttcgccgga ccgcccgtgtt gcggctgaca ccgcaaccac cctggacctg cttccggcta 240
 aaggcgccaa gcgcggattt tctgactagg cgccgacgcc atcgcccggg gcacattccg 300
 ggaaggga aa gaaggtacca gaagaggagg acgacaagaa ggttgca 347

<210> 16133
 <211> 172
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-C12

 <400> 16133

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 ctggggaggt cggcggaagg acacacgaca agccctgaca agagagacag cctgtcgctc 120
 atagggcacg gagggagtgg cctcggtgca ggcgtgaccc tcgtgcgcag ag 172

<210> 16134
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-006-Q1-K1-C2

 <400> 16134

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 gcaactccaa caggttgctc gctcgtcga gtcttcaagc catcgtgccg ctggttctag 180

ccaaagtcgg gcgcgttctt tccttcgcca ggcagcacct ccagtcgtcg tttcttttcc 240
acggctgcac gctcaccgac tcaagcgctt ggccatggag ctcggtttcg tgtgtgctg 300
tgctgggtcg ccgggtcaca tgctcgccg ttttgatgtt gtgcacgttt cggtctgtgg 360
aactcgccgg cgttgtcagc tactactaga cctcacagtg gtactgtgat g 411

<210> 16135

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C3

<400> 16135

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ggaacgctag ctctgatcg taaacgctag atagtcacag acacgcgagc taaaaagcga 120
ctccaacacg ggatgcgctt agcgagtcg aaaatctatc atgcggtttg ctctagacaa 180
cgaaagacgc gaaatttcct tacgcagagt tgacctacag ctattaaaaa tttgggtacg 240
gaatgactgt taacatac 258

<210> 16136

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C4

<400> 16136

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tgctggtgag gaagatatcc cagacgcgcg agcttcctag caactccaca cg 112

<210> 16137

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C5

<400> 16137

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tgcatcacaa gaggaagag tagtttagtt ccgtggg

97

<210> 16138

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C6

<400> 16138

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gaggagtcga ggctgaccga ccccgctggc gccggcgacg agcggacgca gattcggcag 120

ccgtgcgcgg aatgcccgctg gaaggagggg agagagggag ggcgcagtct cagctgagct 180

gagctgagcc ctgataggct agctgtctgc ggtgctgtag aagaggtttc gtatgcgtga 240

tggtcattgg atgttactcc aggtacagtt cgtacaatgt gcttgggc 288

<210> 16139

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C7

<400> 16139

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atgtgtgcaa actcttgcca tccgtcacga gcttgcagat gttgacactt gccggcgggg 120

tgtccaggac atgggcattg ctttgcacta tgagctgcgt gtggcgaaat ctgatcgtag 180

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ccctgggtg 248

<210> 16140

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A5

<400> 16140

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aagttcactg agactgtgga acttcagatt ggtctgaaga attatgatcc acagaaggac 180
aagcgtttca gtggctctgt taagttgccc catatccctc gtcccaagat gaaggtgtgc 240
atgcttggtg atgcccagca tgttgaggag gccgagaaga tgggacttga ctacatggat 300
gttgaggctc tcaagaaaat gaacaagaac aagaagcttg ttaagaggct tgccaagaag 360
taccatgctt tcttggcatc agaggccatc atcaagcaga ttccccgtct ccttggtcct 420
ggtctc 426

<210> 16141
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G7

<400> 16141

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gcgcgcgcgc ctgcgtcctg cgccgcgaac cccgcgctgg agcttccccg agctcgcccc 180
atggcgcccc gccgagctcc tccctgccgt gttcttgcctc ggcgtccggt tttcctgtgc 240
gccacggtct tcttccccga gctcgcccca gcccttgta ttccccatgg ccggagcttc 300
ttccagctcc agctcgatc cctctcccat ggctctctgc gtgctagccg ctgcgcgcgc 360
atctatctct cgcggtatct ccttccc 387

<210> 16142
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G8

<400> 16142

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attatgactc cgattgagtt tccgttactc gaccaaaciaa gttccaattc cgctatttca 180

actacactaa acgatctttc aaattgggtca agactctcaa gtttatggcc ccttctatat 240
 ggtaccagtt gtcgtttcat tgaatttgct tcattaatag gctcacgatt cgactttgat 300
 cgttatggat tggtagcaag atcaagtcct agacaagcgg acctaatttt aacagctggg 360
 acggtaacaa tgaaaatggc tccatcttta gtgcgactat atgagcaaat gcctg 415

<210> 16143
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-005-Q1-K1-G9
 <400> 16143

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 ttcaaaatca tgcagctctt tctactgggt gataaacgtt ctgcaggttc cagttgcggg 180
 aagtgtgttc ttgtgggacg ccatgcagtt atgtaggag agtcatgcac tacgtatgaa 240
 tgggaacctg taatgtgtgt gtgaggcctc tattgagtgg tcaccatcac aactgatctt 300
 ttgtcctt 309

<210> 16144
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-005-Q1-K1-H1
 <400> 16144

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 agtggagtgc aaggaatcta gaattggaaa gcagccatt gaagtccac cgaatgttac 180
 tctcacatta gaagagcagt ttgtcaaagc taagggccca ctagggaat tatctctcag 240
 cttcccaggt gatgtgaaga ttgtgaaaga agaatccggg aacctgagag ttataagac 300
 tgcagagacc aagcgggcga accagatgca cggctctttc agaacattga cagacaacat 360
 catcgttggt gtgtcgaaag ggttcgatta gaagctt 397

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<210> 16145
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-005-Q1-K1-H4

 <400> 16145

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tagaagaagg ggcgcgttta gttttcttca gaccagtat gaccagtgg attgggggtg   180
gtttgggctt ctcttttgtc aagtagccaa ttgggagggc gaaccaggaa agaccactgt   240
agaaggcacc tcttcgcgcc gccttggtca acgtaagtgg caagcaagag ggtggggcatc   300
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aacat                                             425
  
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<210> 16146
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-H5

 <400> 16146

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ggtgcttaga acaatccatg acgtgcatga gttactttca tactactagg gcgatctact   180
caagcactat gccatctgta tctcgatctt ccgctgatca catactatgc cctaatttaa   240
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aatatcattt catatatcat cctattacc                                             329
  
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<210> 16147
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-H6

<400> 16147

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gtactcgagt tacggaggag gttatggtgg tggcatgtac ggtgggtggca tgtatggagg 180
cggcatgtat ggtgggatgg gaggttatgg tggttatggc atgggcggaa tgggtggtat 240
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<210> 16148

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-005-Q1-K1-H8

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cgacggcaat aggcaaggtc tgtggcaacg ccggcaacta cacgggcaac ggcaggtacc 180
ggtccaacct cgactccctc gccggggcac tcccagccag cacgtcctcg tcccctcagc 240
tcttggccaa caccaccgcc ggcgaggccc ccgacgccgt gtacgcgctc gcgctctgcc 300
gcggcgacct gaccggcaac ctacccgggt gcagcgctg cgtgaacggc tcgttgccagt 360
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tc 422

<210> 16149

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A1

<400> 16149

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acgacgacct cccggcagct gcggctgcgt ccgcctcgtg ccgccaccgc gggcgtgcgg 180
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gaggagcggc tgctgcgcgc gctggagcac agccgtgtgg tgtggctgtc ggccggggag 360
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<210> 16150

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A10

<400> 16150

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ctggcagacg cgatggcggc tgccgagcgc agtcgctgat atgcctacag gcagcttcac 360
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<210> 16151

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A12

<400> 16151

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gcaaccgggc ctttgtccct ctcttgctc tcactgctgc tgcccctcgc tattcttctc 180

tgatcgattt ctgtcatggc ttcattctgg ttcagctgcc gctgtagcgg gatgaccag 240
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 ggatgagata ggaggtggct gcatggcctt tcttgttggg tttctatcga tttcctatgt 360
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<210> 16152
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A3

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 aaatgattcg tagctggtta ccatactttc gtgttatccg atggcagctt attgcagcat 180
 tgtagttcac aaggctaccc gagctgcaga ttatggtgga ttctgcattc tgaccactga 240
 ttgctcttta cctgaacggt atacatattg gatgatatga tcttgtgtt 289

<210> 16153
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G6

<400> 16153

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 catcatagat cgacggacta ggccacgcgc cccaatactc agaactagtc ttgagtaaag 120
 catggcgtcg tcttctccgt cctgccgtgg cagcggcggc aagtcggacg tggaccggat 180
 caagggcccc tggagccccg aggaggacga ggccctgcag cgcttgggtg cccgccacgg 240
 cgcccgcaac tggtccttca tcagccggtc catcccgggc cgctccggca agtcgtgccg 300
 cctccggtgg tgcaaccagc tgtcgccga ggtggagcac cgcccttca cggccgagga 360
 ggacgacacc atcctccgcg cgcacgccag gttcggcaac aagtgggcca ccatcgccgc 420

<210> 16154
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F1

<400> 16154

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gttggttact ctttcctccg gaagaactgc agaggcccat cagtcacgct gcacattcca  120
cacattagtc tgatagaagt cggcatgata tactatgttt agcttaaggc ccattgccga  180
agctcacatg tggatacccg gtcggggcaa tgcttggtgt gtctgcggat tgtggtgtgg  240
aaggagttca ggcttggttcg ttctggggcca agtttcagct tgtagagaag aaggcagact  300
tctttgttaa tattattttt agcctaaata aaccagcaca atgtagacg gtgatggttc  360
tcatttggca tatttgcatg catgctctgt aatttttctt gcagctatgt gatggaaata  420
tatccattat ctttaaaaaa                                     439
  
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<210> 16155
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F10

<400> 16155

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acgtcggggc tccacctgcg cgcgtccctc cacctcgccc gtggccacga aatcctcttc  180
catggaatcg tcgcgcatcc tctccacct cgaccgccgc ggccgattcc caccgccacc  240
acgccgcgca cgccccgtcc ctcggtcccc cgttcgcttc ttccctgccc ctaccccccg  300
cgtctaccgc gtcctcgcc cctcctaaca tcgtcgtctt catctagcgc gacagccgat  360
gcacggcttc tagctcagtc cgtgccacgc ccgtgggga                                     399
  
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<210> 16156

<211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-F2

 <400> 16156

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 gaccgctgct tattaacaag aaggatctgc gattacggca ctttcacggc atagacgaac 180
 tgtacagaga cggcattccc gtggcgggcg agaccgggtt cgacgccata tcgaccgtgg 240
 aaccggggcat ggccaagctg gtggaggaca ccaccgacca cgtcctacgc ttcgagggtgc 300
 cggaatgat agagaggac c 321

<210> 16157
 <211> 194
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-F3

 <400> 16157

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 agcaccagtg cctgatcgat ggggggccat gctctcctct ccggccggca gctgctgggc 120
 cgccccgtgc agtcggccgt ctctaggtcg tcggccagga aagcgccctt cgtcgtcagg 180
 gccagctcca gcc 194

<210> 16158
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-F5

 <400> 16158

 ggcagcacac tcagctatcc agcaaaagag atcgagaggc aggagtcatt gccaccgtca 60
 gcgccgccgt ggtgaccacc atcgttgccc gcgccgcgat cgccaggccc aatgctctag 120
 ggctgcctgc gctgagggcg aggagcgaga gggcgcggtg cagctacgcc aaggacgcgg 180

ccccagtcag caccaagggc gcaggcgcgt cgctgctcgc cgcagcgggc gcggtgaccg 240
 cgtcggcggg gcccgcgctg gcgctcgtgg acgagcgcac gtccacggag ggcaccgggc 300
 tgagcctcgg gctcagcaac aacctgctgg ggtggatcct cctggggggtc ttcggcctca 360
 tctggtcctt ctacaccatc tacacc 386

<210> 16159
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F6

<400> 16159

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 cctccaccaa cccaatccag ctacatccgt ctgggtgaac tccagggcca ggagcagttc 120
 gccgccttcg ttgcgcatcac ctacgcggtt cgatccaact ggcaggaagg aacgtgatgg 180
 ccaagacgag ctcggttaag ctggagcacc cccttgagaa gaggcagtct gaggctaata 240
 ggatcagaga gaagtaccct gacagaattc cagtgattgt tgagaaggct gagaggagtg 300
 acattcctga catcgacaag aaaaagtacc tcgtccctgc tgatcttacg gttggacaat 360
 tcgtgtatgt tgtaggaag agaataaagc tcagtgtgta gaaagctatc ttcattcttg 420
 ggaagaac 428

<210> 16160
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-005-Q1-K1-F7

<400> 16160

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 cgctgtgtgt tgcgggtcgt gccctgctt tctccgccag gccgctcgga ttctcgcttc 180
 gtctcaagcc gtcgcctgcc atggccgccg ccggcgctcg cggaacggc cccctaccg 240
 cgcattggaga ctcaataggt ggttcattgt tttgatactg gaattttttg ctctctgtgc 300

agcttcgcgt ttgatttggt cctcagctgt gccatcact tcatagttca tatntgctct 360
tctttacggt agctatttcg actgactgta tttattccaa gcacattttt tttttatgat 420
cgcggt 426

<210> 16161
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F8

<400> 16161

gttgtagact ggcacgaggc tttccagtac gcgcgcgcca cgagggaagac cagcgtgcgg 60
ctgggtgttaa cataccgcga ccagctatgc tccacgtgag ctttccggag tcacagaacc 120
tgacctgtgg agtgtctgac gggccactgc tttcacggcc agggctgtag gattctggtt 180
cagagtcaag acgtacgcct gtcattggcg ccgcgcggcg acggagaacg ggccgactac 240
agcacatgga gactaagtcg gtggttcatt tgatagatgc tgga 284

<210> 16162
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-005-Q1-K1-G1

<400> 16162

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cagtcgctgt acgtggcctc cgtgggtgatc ggcttctgct tcggcgcgca gtggccactg 120
ctgttcgcca tcatctccga ggtgtttggg ctcaagtact actcaacgct ctacaacttc 180
gggtccgtgg ccagcccat cggcgcctac gtgctcaacg tccgcgtcgc gggggcgctc 240
tacgacgtgg aggccgcaa gcagcacggc ggctccctgg cgggcggcgc agacaagacc 300
tgcatcggcg tgcagtgett ccgcaaggcg ttctcatca tcacggcccg ncacggctgc 360
cggcgcgtc gtgtcgtcgg tgctggtgtg gc 392

<210> 16163

<211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-G12

 <400> 16163

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 ccacgtcgtg cgtcgggctg ctgctgctga acgggaacgc cggccgccgg cggtgtacac 120
 ggtgtggaag aggtccagca tgggcttgca gggcaccgac ggcttctgctg tctacgacga 180
 cgccggcagg ctgcggttcc gcgtatacaa ctactcccgc cgctcaaaag ctctgcgcct 240
 gcgacctgct gctcatgga 259

<210> 16164
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-G2

 <400> 16164

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 catcaattcg tgtcaccgtg tcccgagagc gcaaatacatt ccgcgcgacg caaaaaccct 120
 agcccagcca ccgatccctc tcatggcaac caccaccacc caggcgagcc ttctactcca 180
 gaagcagcta agagatctcg cgaagcaccg ggtggatggg ttctctgctg ggctgggtcga 240
 cgacagcaat gtcttcgagt ggcagggtcac catcatcgga ccggctgaca ctctatatga 300
 tggagggttac ttcaatgcaa taatgagctt tccacaaaat taccctaaaca gcccggcatt 360
 agtcagattt acctctgaaa tgtggcattc aaatgtctat cctgatggg 409

<210> 16165
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-G5

 <400> 16165

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gaacgtgtcg accaacgtga acctggaggg ggtggacacc tccgccatcc tcgccgaagc 120
 ctccaagtcc gtcgccaaca tcatcggcaa gcccgaggcc tacgtgatgg ttgtttctcaa 180
 gggttcgggtg cctatggcat ttggaggtag ccaggagcca gcagcttacg gtgagctggc 240
 ttccatcgga ggcctgaacc ctgatgtgaa caagaagctt agtgctggca tcgcttctat 300
 cctggagtca aagctgtctg ttcccaagtc gcgcttctac ctcaagttct atgactcgaa 360
 gcgctcggac ttcggttgga acggctccac cttctagact tgaggtctgc agctgaaatt 420
 aaagaaa 427

<210> 16166
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-005-Q1-K1-E8
 <400> 16166

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 accgaggacg tcttgacggg gcagcgcac caccgcccg gctggaggtc ggcgctcctg 180
 agccccgacc caccggcggt cctcggcggc gcgccaccg gcgggccccg cagcctcacc 240
 cagtacaaga gatgggcgac gggcctgctg gagatcgctc tcagccgtca caaccgctc 300
 ctctatccg cgtccaagcg cctcgggttc cggcagtgcc tcgcctacct tgtcatcgac 360
 gtgtggcccc tcagggcgcc cttcgagctc tgctacgcgc t 401

<210> 16167
 <211> 233
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-005-Q1-K1-D1
 <400> 16167

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 tagctccggg gacctccccg ccggccccgg gggctcgccg gagaagccgg tctggcgga 120
 tcgacgcgtg gccgcgctcg ccggcgccgg cgcgaggtag aaggccatgt cccccgcgcg 180

gctgccgatac tcgcgggagc catgcctcac tattcccggc gggttcagcc ccg 233

<210> 16168
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D11

<400> 16168

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aaggctttat gctcaatgca aggaataggg aaatgttgaa gacttgcgca ctaagaaaga 120
aagagaaaag gcaatgttgc ccctgtagta ctttaagattc atatttgcaa gcttcatggg 180
cattcttgta atttcataca tagttatatc tcgcccctat aaatagagaa acagttctat 240
gcataaatte acctttttcca gggtaacaa cttcatttaa ctcagtattc gaagtacctt 300
cgcgctgttt cttgtgtcaa gactaaggct gatgcaccac tggctaacac attcatatac 360
gtagagtata tccatagggc gatgcatgga agtgacacgg gtgcatacta cgc 413

<210> 16169
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D4

<400> 16169

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aactaaactg aattgaggac gatatggccc gcttggtctc ttccggaatc attggtaagg 120
ggcacaacat ctttgacgat ggcggattcg gtgaagtcca tgctgaccca attaaagtcg 180
agcgtccgca caagcgtccg ccgcagaagc agaatgcgga gaatggaacg acgacgaagg 240
ttgatgagcc aaaggaattg cctaagcacg tgtgcttcaa gggagacaac gggctatacc 300
tgagcgctcg gatgggtgaa ggctaccctt acctgcagtt tgcgtcggac gacataggcg 360
atccaagtgt gaggttcacc acgtacaac 389

<210> 16170
<211> 298
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D5

<400> 16170

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ctcctcgtcc tccaccaccg ccgtcgcgcg gctccccagg aatgggcagc agcgggcgtc 120
gtcgtcgttg ttctctctct cctctcttct ctccttctct gtcggcaaga cgctgctgag 180
gcaggccgag gcagcccggc cgtcgttcgc cgtgcgcgcg gcggcggatt ccgacaggcc 240
gatctggttc cccggcagca cccctccgcc gtggctcgac ggcagccttc cccgcgac 298

<210> 16171

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D8

<400> 16171

cccacgcgtc cgacaagaag ctgacatatg cacaacgttc tggctctcaat caaatcccca 60
atcgaagatt taccctgtgg tggtcaccaa ccatcaatcg tgcaaactg tatgttggtt 120
tccagggtcca gctagatctt acgggggatat tcatgcatgg gaaaatcccg acgttgaaga 180
tttctctgat ccagatcttc cgtgcacatc tgtggcaaaa gatccatgaa agtgttggtta 240
tggatctttg ccaagttttg gaccaggagt tggatgcact tgagattgag actgtgcaga 300
aggagacaat acatcccagg aagagttaca agatgaacag ctctgtgtct gatatccttc 360
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<210> 16172

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D9

<400> 16172

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accccatggc ggccttcgct acgggcagca ccacagcgcg cgcgacgctg gcatcgccga 120

cttcgtgcc a gccggccg cgccggggcg cgcccgatg gatgccgctg cgctgctcgc 180
 cgccggccct gggcctcagg ggaggagcgc gttctcggcg gagcgccacg ctacgggtgg 240
 aagctaagaa gcaaactttt tcttcatttg atgagttgct ggagaagtct gagaagccat 300
 tgtagttga cttctatgca acttggtgtg gtccatgcc aatacatgggt cccatacttc 360
 aagaagtgag tgagaagtta ggcgacaaaa ttcaagttgt gaaaattgat actgagaagt 420

<210> 16173
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E11

<400> 16173

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 agcgtcggca ccaatggctt actaccagga ggtggactac tgctcggagg aggtgaggtc 120
 ggtggccccg gccggcttcg gccgtcacgg ctgcggcggt cagcagcacg tcgtcaagga 180
 gaagttcgag gaggtcgaca cggtcgaacg cgccggagcc aaccaccacc accaccatgg 240
 tcaccacggg ggtcacgggt tcgtggctcg cgagaccagg gttgaggagg acatcaacac 300
 ctgcaccggc gaggttcaca agcgcaggga gagctttcct cgcaggggta actgagcagt 360
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<210> 16174
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E12

<400> 16174

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 atggcgcacg cgaaggccgt cgccgtcctc ggcgtgggtga tcgcgtcgct cctcctcgcg 180
 gctgagagcc gccacattgc ccgaaaagac ctgggcgtct gccttggtgg gggcggcagc 240
 ggcggcggtg ggcggcgcct cggtgtcggc acgggtgggt gcgtcggggg ttgtacaggc 300

ggcggacttg gggttggcac gggtagcggt ctgggtgtcg gct

343

<210> 16175
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E3

<400> 16175

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ctgtggactc actgctagca cattaatggg taccgtctg gttgaccctg tgacacacaa 120
ctggcgcatc atgggacgga tagagatctg gttgccccac aagtcgaatt ctgcatgcaa 180
taaagtgcg aagacatgga cgctactatg accggccgat gtggttcccc ggcaccgtag 240
ctcccgacta cctgtactga tcaatggtcg gggactactg gtaatacccg ttcggtgtca 300
gaaagtcctt agagttccat cagtttga 328

<210> 16176
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E4

<400> 16176

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ggcgccgccg gaagcgctc cctcgatcca gatccaggag atatgcctcg caatgatgat 120
cgctatggga atacacgctt gtatgttgga agattgtctc cccgcacccg ttctcgtgac 180
ctagaatacc ttttcagcaa atatgggaga attcgagaag tggagttgaa gcgtgactat 240
gcattcattg aattcagtga cccccgtgat gctgatgatg cacagtacaa cctaaatggc 300
agggacgtcg atggaagccg gattat 326

<210> 16177
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E5

<400> 16177

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tactggagat atgactgctg gcagaagaac cggtaaattg ttgcttaata gctgtcacga 120
acaactagca catcaaagga aggatagaga aatggcaacc ccacaacttg aattcagata 180
gcaataaact aacgaggaca tgttcgaaat gaggaagcac agacttgctg cactgggaca 240
ggatctttcg actaccgcta ctgatcaacc atttggctct actggcacat ccacatttgt 300
cgtcagagca ttctcagagt atagagggga ttgagaaagg ctcttgatcc t 351

<210> 16178

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E6

<400> 16178

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ataccctga agtgcttcac aaattcactg ttgacctccc aaagaagcat ggtagaggag 120
ggcagtctgc tctgcgtttt gctcggcttc ggatggagaa acgccataac tatgtccgca 180
aaacagctga acttgctacc cagtttttca tcaatccagc tactagtcag cctaattgtg 240
caggattgat tcttgccggt totgcagatt ttaagactga gctgagccaa tctgacatgt 300
ttgatcagcg actccaagcc aagatactta atgtgggtga tgtttcgtat ggtggcgaga 360
acggtttcaa ccaagctatt gaattatctg ctgagattct agcaaatgtg aaattcattc 420
aagaaaa 427

<210> 16179

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C8

<400> 16179

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tggatgtgaa ccacgctgtt ctggctgttg gctacggtgt cgaagatggt gtaccctact 120

ggctcatcaa gaactcatgg agcgctgact gaggcgatga gggttacttc aagatggaaa 180
 tgggcaagaa catgtgcggt gttgttacgt gtgcatacta ccttatgggc gaatgaggcc 240
 ttaacaaagg gtaacatg 258

<210> 16180
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E7

<400> 16180

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 ggcagtctgc tctgcgtttt gctcggttc ggatggagaa acgccataac tatgtccgca 180
 aaacagctga acttgctacc cagtttttca tcaatccagc tactagtcag cctaattgtt 240
 caggattgat tcttgccggt tctgcagatt ttaagactga gctgagccaa tctgacatgt 300
 ttgatcagcg actccaagcc aagatactta atgtgggtga tgtttcgtat ggaggcgaga 360
 acggtttcaa ccaagctttt gaattattct gctgagaatt tagcaatgtg aaattcattc 420
 aagaaaagaa at 432

<210> 16181
 <211> 128
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B1

<400> 16181

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 ccgaccgcgc cgccccggc gggccccggc ccgaccgccg cccgccccag ctcttccgac 120
 cgcccccc 128

<210> 16182
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B2

<400> 16182

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cctcagcttc gtcttcaacc accgccgacc ccatggtgag ctgcacaaa ctccatctcc 120
ctgtgcgccc tttgttctgc tccaaccgtt ctccacgccc tgttcccccc ccatggctcc 180
ccttgccctc ccggtcagca ctagcccgaa cggtatagca gcataccggt gccaaaccgc 240
tgttcgcgac gcttgccaag tgctcgatga aataccgcag tgagctccac ctcgagttgt 300
gcagcccaa cccgcgacgt tgcaacaccc ttgccctccg tcgatgttgc gct 353

<210> 16183

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B4

<400> 16183

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gccctgtact tcttcttcaa ccaccggcga ccccatggtg agctctcaca aactcca 117

<210> 16184

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B5

<400> 16184

ggccaagaat aacagaccaa gagctgcaac aaatatctgg agattcaaatt tccacaatcg 60
ttccattgtt cgagaaggtc ctgagtgcga gtgatgcatg ccgcataggg cgccttggtc 120
ttccaaaagc ttgtgccgag gcataatttc cccaatttc tcaaccagaa ggacgcccct 180
tgacaattca agatgcaaga ggaaaagaat ggcatatttc gtttaggttt tggccaaata 240
ataacagcag aatgtatgtc ttggagggtg ttacaccatg catacaatca ttgcaattac 300
aagctggcga tacagtgacc tttagtcgta tagatcctgg agggaaactt gttatgggct 360
ttcggga 366

<210> 16185
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B7

<400> 16185

ctccaatctc catccttcca tcttccgctc ccttccctgc ttgcgctcgg cacgcaggcg 60
acctcggcgg cgcttggggt cggcctctca gcgacggcgt cagcagattc cctcctgcc 120
tctcgccagt cccctcgctt ctggctctct gcgaaccggc cgggtgactct gcgaaactat 180
tccagcacag gtaccaagt atggcggcaa gacgcaatgt tcggtactcg cctcttcctt 240
cagaggacgg ggatgacagc aattttatta aagaagatgt tgacctccga tacacttaca 300
ctccgaaatc gtacagaagg atcccatgga agtcaattgc cctggcattg ttctgctcc 360
tcctaggaac ttcacttctc tttctttctt acttcatatt cacaggtcac atggaaggt 419

<210> 16186
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B8

<400> 16186

ctgaacccaa actcataccg taagcagagt aactagctg ttcgtgatca gggcgtacgt 60
gacagtcagc catggtgatg gtgtacatga tggcgacgga ggggatgaac gtgaatgatg 120
agtgtcagca ctggtttatg gtgatgaagt gtaagaaggc gcaccggtct gtggtgtaca 180
atatcgacga gcggtcgac gcattgctgg tggacacagt gggcggtcct ggggatgggt 240
tcgaggagat cgtgatcaca ctgatctgct tcaactgcat gtacaccttc tttgaattca 300
acttcgtaac tgttgacaac tgatacaaga gcaagaaatt 340

<210> 16187
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B9

<400> 16187

caagatgttt gtttccattc catcgggtggc acgagacagg agacgccaag gccatagcta 60

gagcctagag cagcagcaga ggcttgacct gaagctccac ccgccatggc attcacgccc 120

gctacggcct gctgcaaggc ttccttgggc ctggcacccg gggcgtcgcc ccgcggcccg 180

gcggcctgcg cgcaggcggc gtcctctgac acgcccctcca cctccgtgtt ccgcggcctc 240

cgggcgcccc catccgccgc gccggccccg cgcggcgccc gtcggcgccg gtccacgggc 300

atagtctgcg gcaaggtagc tggcctcggg aatggcggtg gtgcgtgcgg gaatccgtgt 360

tccacacatg gcggtgattg gtttggtagc cgtggtcgtc tcctcgttgc aggtcgccaa 420

gggcagcg 428

<210> 16188

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C11

<400> 16188

cggattccgg gtcgcccacg cgttctgtga gcctgctgcg cttcttcgcc gtcccgtcgt 60

gtcttcgtcc gtagatcaga tagcggggag gaagaaaaag cgatcgatgg cgtccaacta 120

cgtggacacg acgggcgagg agggacgggt ccacggccct cacagccaca gcaccagcac 180

gaccccgacg ggcggcgcgg cggcgggcgg gccatcgccc cgcaacttcc ggcgagcctt 240

ctcttcgcg tcctccgagg gccacagcca cggcgggcgg gcgggcagga ggcggcagca 300

ggcgccctcg gccgcgtcgg tcgtcgcggg gattccg 337

<210> 16189

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C12

<400> 16189

cggcgctggt gttctagtcc ttttcattgc accgtgcgaa gaaggaccgg gcgaacgcgc 60

agaggctcaa gatcgaggcc ggcgtggcaa cggcgggcgg gctggggcgc ggcggtacg 120

cgtaccacga gcaccgcgag cagaaggagg ccactacga gagcaggcag caggagcaca 180
 ggggtgccgca cgggcacggg cacggctact cctactactg cgactgaaac gactgatcat 240
 cccatcgatc gagatatgca tgcagaactc gatatatata cgggccctag cgccgtacac 300
 gtgcgtgcgt ggtagtaaata aagagcaaac gttgtcacgt gttgtgttgc tcgatcacta 360
 cttcatcgat ctacttatt 379

<210> 16190

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C2

<400> 16190

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 cacaaatggc tggcagagca catccatcga atgatacggc cacaccttcc catgtgccac 120
 tgattgttcc atctgctact ccaacacatc aaatgtctca tcctttaggg ggttcatctg 180
 ctccaccact tcctctocat gacacaaatc cgcatgccag tcagtctgca aatcttctaa 240
 caccagcttt ctttgcacca ccaccaccct cttcaacatc tgtgacacca cctgcttcat 300
 ccatgatgcc tacagcacca cctcttcacg cgacttcaac agctgtctca catccttcat 360
 atggcacttc cttacttcaa cctttttccg caccgttttc 400

<210> 16191

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C4

<400> 16191

ttctatctca agatgaaggg tgctactaca aataccttgc ttgagtcaag actggagctg 60
 agagaaagga cgctgttgaa aacaccatgg tggcatacaa ggctgccag gacattgctt 120
 tggctgagct tgctccaact caccctatta ggcttgact ggactcaac ttctcaatgt 180
 tctactatga gattctcaac ttaccgatc gcgcctgcaa tcttgcaaag catgcttttg 240
 acgaggccat cttggaactg gacaccctga gcgaggagtc ctacaaggac agcactttga 300

tcatgc

306

<210> 16192
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C5

<400> 16192

gcgaatagga acattgagaa agaaagacgt gccgacttct ataaccaacc atggggtgaa 60
gacgccgtta taagatactt gaaccgcaaa ccggctaacg agggcctagg tgggtggtgct 120
gggtggttctt gaggcgtgga tttctcctag ctatttttagt gtataaacia attatctgtt 180
ctgtattggc agtaaatttc aggcgtatta gtgaagataa ttgttcagtg ttgtgaaatg 240
atgttcaggc tagtcattgt atgtttatgg tgtgttctat attgtcaagt gctgaactga 300
accgtaatgt tgcttgggtg ggccctgaaa atagtaagcc taaatcacat tctaaaaaac 360
tggaatgcag gatttgatag tagcctttcc at 392

<210> 16193
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-005-Q1-K1-C6

<400> 16193

ggaagaaggg cctcctgtat cctctcaact cctcagtc tgcctcgtct gctccctgct 60
ctctctacct agctctagct agccttcctg tagcgcgga gagatggctg cccctgcctc 120
caccacggcg gcggcgcgcg cagcgtgtgt gctgctgctc ctctgtcgc tcgcccgggc 180
ggcggacatg tcgatcgtgt cctacgggga ggcgagcgac gaggaggcgc ggcggatgta 240
cgcgagtggt atggcgcgcg acggccggac ctacaacgcc gtcggcgagg aggagcgggc 300
gtaccaggtg ttccgggaca acctccgcta catcgacgcg cacaacgccg ncgtcgacgc 360
ggcggtncac tcct 374

<210> 16194
<211> 306

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-C7

 <400> 16194

 aggagacgta cgctctctgc tagcacccat cttgcagcag gcgagagccgc ccgacccgat 60
 ccgtgcgtgt gtgttggttag agatggctac agcagcttac gctcccatgg cgagccaggt 120
 gatgaagagc agcccgggtgc actcgaggcc gaggggcctg tcaggcgctg cgctcacgcg 180
 gccccggccc cggttcagcg tcgtcaaggc cgccatccag cccgagaagg caacgtacca 240
 ggtggtgcag cccatcaacg gcgacccggt catcggcagc ctggagacgc ccgtcacctc 300
 cagccc 306

<210> 16195
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-G9

 <400> 16195

 caaggagtgc aataagatcg taggtcacgt ccagcagtgc aagaggctgg ttctgcaaga 60
 cattccccctc atcttggtga acggtgagaa gttcctcgag aagaacgatg tctgcgcgct 120
 cgcacaggct tgtccagcga gcagtaggaa gacgttcagc tcgatgttga agggagcgtt 180
 gtggagtgc gcttggttg aaggttgaag aagaacacac ggagcggttt agcagtggtc 240
 agaaatagtg tgaacaagtg ctgtgctgta catataataa tgtcgtgtat aaacgcatga 300
 aggacgtgtg ccctgcatac ttttcgtctt gtatcataaa ttcattaaca cgtctactta 360
 agttattggt ta 372

<210> 16196
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H1

 <400> 16196

 atttctctcg aggtctgcac actcgtctgc taccgagacc gttggcggcc atcgtcgcac 60

acgctgggct gatgctaagt agcgaggggtc acacgtgcta ctactacccg gacgttgggga 120
cgagacggaa gctatgcgcc gggagaaaacg tcttgcgaga gaccgccccg cgtgacgcat 180
aggctgattc ctgccgtcac ggcaagagga ag 212

<210> 16197
<211> 282
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-004-Q1-K1-H10
<400> 16197

gctatttggg gcttgaatgt gactgttctt tttacttttt gctaagcctt atttaaagtt 60
tgtataccat ggaatatgta ggatttgtcc agtcatttta gtgctgaggg ggtctttgtg 120
tttttgttgc agttttcctg gtggctcggt ttgtattgta agagggcact cactgacata 180
agtactaagg cactaagaga aaatacacac agataagtat ttataagatg cttgtgatcc 240
atagcatgat ttttgtttcg ttttgtaaga gaaaaaaatt ac 282

<210> 16198
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-004-Q1-K1-H12
<400> 16198

atttcagaat ctctctaggg gcacaaggac tcaaggggtt cagcctccat tttcaaggaa 60
aggcagtatg gtctcagttc tgagtggcag gaccaccctg agcttgaggt gttgagaagc 120
aagtgggtggc accttcttgt gtcattaaga cttaatgagc ccatcacagg tcagggaatg 180
gaactaggag tcgggtggag gtaatcgagt ggggtgaata atgcctgctg ttcaacagca 240
gctgcccagc gtcccagggg actcccatgg gccactttaa cctaaagggg aactgccttt 300
atgggcctgt cgtgtctcat cacagcacat ttctaagttg gaagagcctc aacttccacg 360
gctaaatctg aacttactgt ttgctcagtg cttgggtcca 400

<210> 16199
<211> 356

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H2

 <400> 16199

 gtgggattag gtattggtgc cacacctttt attagcatatc tgaaagacct gctcaataac 60
 atcatcaaaa tgggggaaga ggaagaagct tcaagcatatc gaaacaacca ataaagcggt 120
 accaaaactt ttgattgacg gaccatatgg ttctttctgca caagactaca gcgagtatga 180
 cgttttacta cttgtgggat taggtattgg tgccacacct tttattagca tactgaaaga 240
 cctgctcaat aacatcatca aaatggagga agaggaagaa gctttatgcg atctttaccc 300
 accaattggt cgcagcaagg cacatgttaa tcatgacacc cttatgagga ttacct 356

<210> 16200
 <211> 105
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H3

 <400> 16200

 gcttaacatt ggatgtctga catacggtga gaaagctatg aacttatcag aatctgtaga 60
 tcaagcggat gagatcacia aggcactgtc tacgagttca gaaca 105

<210> 16201
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H5

 <400> 16201

 cgtgaggcgg ttatcaaagg catggaccat aagggtttgc ctataatggt attcagcacc 60
 gattatgcat catacgaagc cagtttcgat gctgggtgtgc c 101

<210> 16202
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-H7

<400> 16202

agccatacca acaagtccta tattattggt cgctaatact ggaggaccaa acatggccat 60

gggatgagga attttctgca ctttctcacc ttgaagctag tgatctggga atttttttgc 120

cccatttgct atcaaaaacc ttcacgcagt gttattttgc aggtaatat gaacccaatg 180

aatcaaacaa tatcggtcaa catgttgaag atgtcttatt caatgcacca attagtgcct 240

gcaagccact atccccatcg cagcatcttg ccaagaggat tgtaaagctt gagaagggtt 300

tgagatacta ttatccagca atgtgctcaa atcaccaaga tgaaaattct gctcttctgc 360

actatattca gactcatcaa gataatgta atcaaaatga tctacttcaa ctacttgctc 420

ttggtggcaa gcatccagct ttt 443

<210> 16203

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-H8

<400> 16203

gcagtcggca gcaaactgaa tggcgcttct cgctgtggag ctccggagat tccttcttcg 60

gcaaattgtc tgctgctagg cggtcctgcc ttctatcgcg tggcgcggtc gttctgctag 120

ctcatccg 128

<210> 16204

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-H9

<400> 16204

atcgctagcg gacaccttga ccttcatttt cccttttgat cacacccttc cagcatgtgg 60

gcatgggcaa cattccactg actctaggca ctatc 95

<210> 16205

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A1

<400> 16205

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aggaaattgg aaggatggat ttatttttca ctgatcaacc tagcctgcta gcacctaata 120
ttcagatggt tgtttctgct cttgctttgt ctcaatgcga ggcgatttgg cactttcaac 180
atgtgcggat tgcacatca aaatctactc gattgaaaac tgggtgacatt gattcgacag 240
acccaactat tggtttctta ctagatggaa taagcaaact ttgttgactg gttcgtaaata 300
acataacagt gctggaagaa taccgttctt actt 334

<210> 16206

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A10

<400> 16206

gtcacttagc ttcactcggc aaagaaaaga ggcaacgacg atggctgctg cggcggcgat 60
gatgggtctcc ggaggacggg cggcgctggt ggtggcgggc gtgctctgcg cgggtggcggc 120
catggcggcg gcgcagcagg cgtcgaacgt gcgggcgacg taccacctgt acaaccggc 180
gcagaacggg tgggacctga accgcgtgag cgcgtactgc gccacgtggg acgccgacaa 240
gccgctgtcg tggcggcaga agcacggctg gacggccttc tgccggcccg ccgggcagaa 300
gggccaggcc gcctgcggca agtgcataag ggtgaagaac cgtgcgacgg gcgcgttcat 360
cgtggcgagg atcgtggacc agtgcagcaa cggcggcctg gacctggact acgagacggt 420
gttc 424

<210> 16207

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A11

<400> 16207

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ggcgttcttc atgatcggag tccgcaacaa gagcatggag gaggcaatgc atcctctcca 120
ctccccgtac ttcgtgatag atgaggacgt tctgcctgta ggagctgcct tccactctgc 180
agtagcgatg gagtacctga acaaatactc aacgacccgg caaactgagc tgctgcgcat 240
tgagctgtga tagattattg cttgtaataa gggttaccat gccgaggtca tgttgacaaa 300
aagaaagtct gcattgtgcc catggaataa atacagtttc tccaaaaaaa aaacataaaa 360
aaaaagaata tataatat 378

<210> 16208
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A12

<400> 16208
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aagaaattct gcaaagcaac tggtagatcc ccaacattca gaaagtgatg ttactggtat 120
cagaggcaca agcaataaac ttggtgctaa tatctcggtt ggaaatcatc aaatacgacc 180
tacgatggca gaaccttcat caatgccaac aatggggcct ctatcaaaag cccctcgctt 240
ctagtgggta tgcttctctt ccctatcgaa ggaaaaatc cttttcagga caatctacct 300
ggaaaacaac ccgtatgctc taactcaagg attgctagca agtggaagca caataaatcc 360
acgagcatct gtggcaaact gcagatgctt gtcttacagt tacaggaaag cagttgctga 420
c 421

<210> 16209
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A2

<400> 16209
ctgcagtcca tttgctacta ctccgcgccc aaaaccaagc ccaagctcaa tagcctcgac 60
gaggtcgacc cggagctgct caagaccttc gaccgcctcg gcaccccgct caccgagcag 120
aagcgctctt ccaacgtcgc cgttgacgcc gtcacgact ccacctccat cgccaccacc 180

caccgcgaag cgctcatggc caagggcgtc atcttctgct ccatctccga ggccatccgc 240
gagtaccggy accttatcag gcgttacctg ggcagcgctg taccgccagg cgacaactac 300
tatgccgctc tcaactcagc ggtgttcagc gacgggtcct tctgcttcgt gcccaaagac 360
acagtctgcc ccatggaaat ctcgacctac 390

<210> 16210
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G6

<400> 16210

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gagggccgctc tcatccgagt taaggaagcc atggagcaca aggaggctgg gtgccaggcc 120
cccgagggac ccatectctg catcaataac tgtggcttct tcggcagcgc ggcgacctg 180
aacatgtgct ccaagtgcc aaggagatg ataacgaagc aggatcaggc caagctggct 240
gcctgctcta tcgacagcat cgtgaacggc agcgacgccg tcatggagcc ggttgctgct 300
ggcagcaaca c 311

<210> 16211
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A4

<400> 16211

agaagctgtg tttccgtccc taccgtgagc ttctgctagc ggggtgcctg cggaggagag 60
actgggatgc catagacagt ggtggcattg tgaacacggg cggagtcaat gactaccccg 120
ggaagcttac cctcttcattg gagatcacct gcacgtcga cgacaccggg ggtctcattt 180
tcggatatga catcggatc ttaagcgggt tgacgtgcat gaacc 225

<210> 16212
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A5

<400> 16212

cgttaaacta atgatcgtag cctacacttt tccttctaata gctatctata tatgcttgag 60
tttgagtagg gttgtctcca gaaagctaga ttgttactta tatcccacac acttgcgcg 120
acgcaacccg gcctttgtcc ctttattgcc tctcact 157

<210> 16213

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A6

<400> 16213

ctcagctccg ccgcttgccc gcttttgctc tctccctccc ggctctcggc ttcttctaga 60
cgctaccgtc tcacagccgt aaacgcccct cccggatccc gctagttcgc caccgccgcc 120
cgcccgcccg ccgttcgect catcatggcc gcctcgtcga ccgccacctc cgtccacgac 180
ttcatcgta aggatgagag cggcaaagac gttgacctca gcacctacaa ggggaaggtt 240
cttctcattg ttaacgtcgc atcccagtgt ggcttaacta actccaacta cactgagctg 300
gccagctct acgagaagta caaggaccaa ggctttgaaa tcctggcttt cccatgcaac 360
cagttcggtg ggcaggagcc tggtagcaat gaggagattg gccagtttgg ctgcacaact 420
tta 423

<210> 16214

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-005-Q1-K1-A7

<400> 16214

cgcggcagag atcttctttg ctccacgctg cttggagtcg actgtgtcgg gtcggcatte 60
gtgcgaagag agggtagcag cagtaccggt tgttctatcc gttatttgc taggnngctg 120
actgtcctgc atcgactcc annaactgaa gaggctcaac gtctttacca atgaacgcgg 180

ctgaagcatt atcaaaggtt cttatatttca gatggccatc gcctcggatt ggaacaagnn 240
ccaggcagcg gcgggccgaa aggggtcttg acgatgacga tgcctcgtcc gtggactctg 300
ccaagacctg gagccatgag gagaccccgga caccgctgag gcagaggtat tccaggatcg 360
gctcgtctgtt caacaagcgg acctacgcag caggcaaggc ttcacctagc gaagcagtga 420
agaaggggtgg agtgggtacaa ccagctgggtt ctactttact ttcg 464

<210> 16215
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E2

<400> 16215

atcagcgggtt gccgcctcat cttccttctc tctcgttttg gcgcaacttc cttgccccgc 60
cgccgggctt ctctccaatg tagcgggcgg gaaagaagag actaccacca gttgggactc 120
gctggtacct ggatgtctgc gacatgtgct t 151

<210> 16216
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E3

<400> 16216

ggcagcttga ggcacttgct cgggtcatgc accagaatgt gttgtcgttg aaggcatagc 60
ttcgcgaggc ggaccgcctc tcgctcgagt acgacttcgt ccatgggggc agcctcgttg 120
atctgatgaa gaggggtgagg tgctagcaag tcagcctcgg ttgggatgag aggagcagga 180
ttgctgttgg gattgccaaag ggactgaggc acttgcatth tgagtgcgat ccgatgatag 240
tccactgcaa cctcaagccg tccaatgtga tgctagacga aagtttggag ccattat 297

<210> 16217
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E7

<400> 16217

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ccaggtctcg ccgtcgtcac cgtcgcggta gagaggggag ggagaggggg agaaaactgg 120

cccagatcga gaggtacagc acgaaaaaga gaggcaagag agatagggga ccggagggcg 180

gagggccggt gccaagacc gaggggctcg tgcgcatgaa gctgatgagg ctctgtctc 240

tcgtaccctt cggtcgccgt gctggacca tcgacga 277

<210> 16218

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F1

<400> 16218

gggtagacga gctgaggag cgtgaggtag cggtttaaga agttacggaa gcgttgaggc 60

tcgaggagga tagattgc 78

<210> 16219

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F10

<400> 16219

cggaacgctg ggcggacgag tggggcatgg gcagcaatgg ccttggcttc aggcagggtg 60

tgtggtcacc gcaggcccag ggtcgaggct tgtcagggct tgaatggatg atccctgtga 120

ggggtcaata ttaaagcaaa ggtcagggtc ggcttggagg gcttgggtga acacctcagg 180

tcactctaga agcttttaag tggtcagtgc attgtttgta ggccggaagg acagctgata 240

tgctccttgg tgatgtcctc ggtgggcacc agccagttag gagctctgtg gtggggactg 300

agggagttgt ttagaggcgt ttggaccagt ggggcagtca agctgtcttt ctgcagttag 360

gaggactcac caaacaacaa aga 383

<210> 16220

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F12

<400> 16220

cggacgcgtg ggggagctgg gaatTTTTga taactgttaa ggacatcaac tatatTTTTa 60

aactgaagtg cagttgattt acattcctgt atttgTTTTg ggggtgtacaa cacagtgatt 120

caatatTTTT atgaaataaa ctctatTTta aggtatcaca cacacaaaaa aagatgaaaa 180

tacacagatt caacaattct cacaaatcct aggaagagaa aaaataaatg tgcattctggg 240

cacatcacag tgaaacttca ggacatgaac aacaaagaga aatctgaaga ggggtacattt 300

accagaaggt aaaatatatg ttacattTaa agaacaacag aaagttgagt ttttcagaag 360

aaataataga aaccagaat cagatcttca ggggtgctgag g 401

<210> 16221

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F3

<400> 16221

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ggccaccgcc atcggccagg ttcgacatca gtagtgaagc tgcacctgta cctgtacgta 120

cggaggaaga gcctttgccg gatctaataa tacactacta gcgcgttggt tgggttgcta 180

ttgctagatg caagcgtgtg cgtgcaccgt gcagtgcatt tgtggatggg cgtcaacacc 240

ttgcatgcac gcgctattct ttaattg 267

<210> 16222

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F4

<400> 16222

ggccgtgctg cccgccaagg gcaggccttc ggcgaggagc aggggtgggg cccgtgtccc 60

cgccacaagg aggagcgtac gtgtagctgc cgtcgacgcg accgaggccg cgcagatcga 120

ctacagctca agcgtctcgg tgttcccgat ggaggcctgc gacctgctag gtggctacgc 180
 gtgcaacgtg cccatgtttc cggaggccaa gcccgcttg gcaagctgcg acagctagca 240
 ggagtgtgga catagtggac agggactacc tg 272

<210> 16223
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F5

<400> 16223

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 gcctaggtgc gaccggcggg cagcagcagc acccagccgc tggcgggtgcg cgtgacgac 120
 gtgacggggc cgtctcgggg catcggctcg gccatcgtca cgcacctgtt ctgcctcggc 180
 tcgagcctgg tgctgggcta cgcggcgcgc gccgactagg 220

<210> 16224
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F6

<400> 16224

tccgttcgga ttcccggtt ggatttttga gaaaagagag aagaaactcc ctattacagc 60
 ccttgcatth tctcaaaagc tgtggggctt gctccggaga cagtgttcca gccattgctc 120
 aaggataatc tggttgcaa agggatagta ctttcattca taactgagtt tttcaaggag 180
 tacctgaagg aaaacacctt ggatgatgtg attgcgcttt tgtaataaag gaaaaatgga 240
 ggacaatctg tgggactttt ttgcatcagc taatagatcc tctgaggctt ta 292

<210> 16225
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G1

<400> 16225

eggcttggtc ctctgatcgg cgtgtttgcc cctgcaaagc ccgdcagtc tccatttttg 60
 tttcccagcc cggatctccc tgctcgctt gtcctccgg cgccgaggat ttctgctcgc 120
 ttggccggcc atggtggctg ttcattgcta ctggcgggtg acggttctgg tcccggccac 180
 cgtcgcgccc agggaaatgg tgcgcattcc tgtgcccggc cttcttttcc gtcgcgctcg 240
 tctgtgctct gtccctggcgg tcttctctgc ctacgatctg tggcgct 287

<210> 16226
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G10

<400> 16226

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 ctgtgtggag ccgcgtcacc gtgggactgg gcggccatca cacagcctgg ggccaggtgg 120
 ctgcacctgc acatggggac tgggttttga tcgtcagttc ccagggtttc tgtctgaaac 180
 agctgtttga aggtgactg tgcagatcgt tgtcgacagc gcacttgat ggctttcagt 240
 tgatccatgg agccatgcgt ccaccctac gaccatttc agagcattta catcaccccc 300
 caaagaagcc cccatcagca gtacctccc atcttcctgg gcaccactaa cccactttct 360
 ctctctctgg attggtctga tctag 385

<210> 16227
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E11

<400> 16227

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 taatgcctct gatgctggat aagattaggt tcctttccct tactgataag gaagtctctg 120
 gtgaagggga cactgcaaag cttgagattc agattaagtt ggacaaagag aagaaaatcc 180
 tctccattcg ggataggggt attggtatga ccaaggaaga tcttattaag aaccttggaa 240
 cgattgctaa atctggcact tcaggaacag gagctgctcg agtctcttgt cgaagctgat 300

acgagaagggc aggaaagagc taaaaagatg gaagaaaaga aagtgtatct gcaactatac 360
gaagcaatgg aagcgttggt caagatcaat ctggagacca acaagatca 409

<210> 16228
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G3

<400> 16228

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atctagtaga gaggctagta tgtggtactc gaactaagat gttggctgag ttcagcgggc 120
gagtgggtga ggtgccggcg gagctgggtg cggcgtgcag ccggactccg tcttccaaga 180
cga 183

<210> 16229
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G4

<400> 16229

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ggcgagcagc accatggccc tctcctccac ggcttcgcc ggcaaggccg tgaacgtgcc 120
gtcgtcgtcc gccttcggcg agggccgcgt gacgatgcgc aagacggcgg cgaaggccaa 180
gccagcgggt gcgtccggga gcccagggtg cggccccgac cgcgtgctgt acctgggccc 240
actgtgcggc gagccaccga gctacctgac gggcgagtgc ccgggcgact actgctggga 300
caccgcaggg ctgtcggctg acccgtggac gtgcggcaag aaccgggagc tggaggtgat 360
ccactcccgc tgggccatgc tgggcgcgc 389

<210> 16230
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B7

<400> 16230

gccatcgaca cgatcgcgag cgcaagctcg ttcgttgctg gaagctcaag ttagaagaag 60

caccagtgcc tgatcgatgg cggcccaggc tctcctctcc ggccggcagc tgctgggccc 120

ccccgtgcag tcggacgtct ctaggtcgtc ggcgaggaag gcgcccttcg tcgtcagggc 180

cagctgcagc ccttcagcca agcaaggtgc cgacaggcag ctgtgggttcg cgtccaagca 240

gtacctctcc tacctcgatg gcacgctggc cgacgactat ggcttcgacc cgctgggcct 300

ctcggacccg gagggcaccg ggggcttcat cgagcccaag tggctggcct atggcgaggt 360

gatcaacggt cgctacgcca tg 382

<210> 16231

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B8

<400> 16231

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gcctaccctt catcatcgtc tctcctctcc tgctgctcct ctgcctgag cggccggctg 120

aggccgcgcc gccgcgaatc cagccgctcg ccaccgtcgc gctgagccgt ctctacgaca 180

cctccaacta cggcaggctg cagctcaaca acggcctcgc gctcactccg cagatggggc 240

ggaacagctg gaattttctt gcctgcaaca ttacgatac ggatcatccg gagacagctg 300

atgcgctggt gtccacggga ctgactgcgc tgggctacat cttcgtaaata atcgatgatt 360

gctggtcata cgtgaaac 378

<210> 16232

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C1

<400> 16232

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ggcgaggtga tggcgatgga cctgacgcg gtagctaagg ctttcgtgga gcattactac 120

cgaacgttcg acaccaaccg cgcggcgctg gttgggctgt accaggagac ctccatgctc 180
accttctagg gccagaagtt ccagggcccc ttcgccattg ccggcaagct cggatctctc 240
cctttccagg cctgcgagca tcagatcgtc accgtagact gccagccatc ggggtccccag 300
ggaggcatgc tcgtcttcgt ctgcggtttc atacgcactc gccccgagga gcaccccatc 360
aagttcttcc aggcatt 376

<210> 16233
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C10

<400> 16233

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ggcgtgagcg cagaagacgt ggcgtgcacg atgacgcatg acctgtacaa ccagatgctc 180
gtcaatcgac acgacactca ctgaccggtc cacggtgtct acacctacta cgcctatatg 240
caggccgtca acatcttccc ggtgtttggc accggctaca gcacctgact aactttacaa 300
gcgcgagctt gtcgacttct tctgtcatac cttccactag actacoggtg gcacgacagg 360
tg 362

<210> 16234
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C11

<400> 16234

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gaagctgagg tacctggact tcgtccaggt ggcggctgcc caggccgagg tgtgcctcgc 120
tgggctctac ggcttcgcca aggaccacgc cggcccgcctc cggcccagcg ttgacaccgt 180
cgagtctgcc gtcaagggcg tcgttagccc cgtctacgac cgcttctgcy gcctgcccgt 240
cgacgtcctc gccttcgtcg accgcaaggt gagttgcgtc acgcgcctta tggaccgatc 300

tcccccttct cctgctcttt ggtggcggg tagcgtctcg tggtaaca 348

<210> 16235
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C12

<400> 16235

taccggtctc ggattgacgg gacgactcca gcgtccgcta gatagctcga gatgtctttg 60

tgatttatgc gtatgat 77

<210> 16236
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C2

<400> 16236

ggacagtgag gcgccgcttg cctgcacat acggccgcg ctaggaaccc aaaaggccaa 60

gaccctgccaa aaagctacta cacagtacac acacggtacg gaatccgggc atgcgagaaa 120

gcaggcctaa tctcaaggcc gatggtgcga gcgctggttt gc 162

<210> 16237
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-C5

<400> 16237

ctctctctt gcgattcgct cgctcgatcc tagcttcct tccaagaagc gcagcgccca 60

tggccatgta cacgcaagcc ttcgccgcca cgcgccacct gctggcgcc gtctgggccc 120

cggcgcgcaa gccgaggcag ctgagctcgc agctcgcgct gacggcgctg tactcccgcg 180

ggccggcccc gctccgcgcg tccaccgagg aggcggtgga ggcgccaag gggttcgtgg 240

gcacgcagct ggaccccagc acgcc 265

<210> 16238

<211> 80
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-C6

 <400> 16238

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 catgattggg aagctaattg 80

<210> 16239
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-C7

 <400> 16239

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 aacaaacgaa caatattatg aattaaagat taaagtgcgc tgtgaaggca atgaagtgtg 120
 caagggtttt ttggctgaat atgatttaga tcataactac gctgttgtca acattgatgc 180
 cttcattggg gttcatgtgg gaagttccca atgtgtgctg gaatctgtgc tccgtgggta 240
 ggcatatgta gttgggcgta gtgtctatgg tgacctata attcagg 287

<210> 16240
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-D10

 <400> 16240

 atgagagtga gcctggaact tgcaaagata gagaaatcat gcgccatgac cccacaagc 60
 ttctggaagg atgccttatt gctggagttg gaatgagggc atcagctgct tacatctaca 120
 ttagaggtga atacgtgaat gagcgtctca acctgagaa agctcggcag gaagcgtatg 180
 cagctggact tctgggtaag aatgcttgtg gctctgggta tgattttgat gtgcatattc 240
 attttgggtg tgggtgcgtac atctgtggtg aagagaccgc cctactagag agccttgaag 300
 ggaagcaggg caaacctagg ctgaagccac ctttcccagc caatgctggg ctctactgct 360

gcctcacaac tgtgactaat gtataaactg tggctgtatc cccaaca

407

<210> 16241
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D2

<400> 16241

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cgaccatggt gcgcttccag acccggtgcc tcaactgttt gcaaagagta gaagaaaagt 120
cattactcac atcagtgcag ctagcaacga aggccatgca ctgccacagg ggccgacaag 180
accatgtgat accttggtgcc agcttgttct gggtggaaca ccattgcttc gaagcctttc 240
tgtacgcctc aaggattttc tccatctggt tcatcatcaa gatcaatgtt gttactcaca 300
taagtgtgct aaggcatgat taacaacaca taacagacct gcgtaaaaac cataggaaac 360
aagatgccac gaacaaaagg aaaaa 385

<210> 16242
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D3

<400> 16242

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gccatggcgt tactctctcc ctctgcgcac ggcgctcgct tctcctggc tcccggccag 120
aatttcttgc ggcggaagc ttgctcctg cgcctgtccc acatggcgct cggccgcccc 180
gctgtatctt gtccttgcg ctcgatttc ctctgtacc tggcgaactc gcccagccc 240
cagcttaaatt gtcttctctg ccgtgcgcgc t 271

<210> 16243
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D8

<400> 16243

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ttgaagtgtg cccagatcct tcttgaagct ggtgctgcag tggacgctct tgacaagaac 120

aagaacaccc cgttgcatta cgtgctggc tacgggcga aggagtgtgt ggatcttcta 180

tagaagcacg gtgctgctgt aactctcaa aacctggacg ggaagacacc tatcgatgtc 240

gacaagctga ataaccagga cga 263

<210> 16244

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-004-Q1-K1-E1

<400> 16244

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agagcgtggg cgctgcacgc ccccgctggc agcaaggaca ggctcctcgt cggcaacctg 120

caggtgctgc cgtcgaagcg ggcgctcgc cgcgtgtccg tcggcccgct cggcacgcgc 180

cggccgcggc acgtctgcca gtccaataac gcagtggacg aagttgtggt ggcggacgag 240

aagaactggg acgggttggg gatggcgtgc gagacgccg tgctggtgga gttctgggcg 300

ccgtggtgcg ggccgtgccg gatgatcggg ccggtgatcg actagctggc caaggactac 360

gccggcaaga tcacgtgctg gaaggtgaac acggacgaca gtcccaacgt ggcgttcacc 420

ttcggcattc gcagcatccc caccgtgc 448

<210> 16245

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-E10

<400> 16245

cgaccaagtc tcccgtccct ttcgagtttc accacttcat cgacgcgcaa ctccctgagc 60

ttattccagt ctaggtctac gatgactaca agctcatggg gtgatatact ctttacacct 120

accgattgat c 131

<210> 16246
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H9

<400> 16246

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 catttctcag aggtgtcctt gagaaagttg gaattgaacc ggaaattcaa cgaattggta 120
 aatacaaaag tgccggagat caacttgac gcaagagcat gtcaaatgaa gttagggaga 180
 tgctggcagc actgcttgac aatatttatg gaaactggct ggaaacaata tcttctacac 240
 atgggaagaa aaaagaagaa attgagggat ttattaattc aggggtgtac cagggttgcca 300
 gactcaagga agaaggttgg gtaacagatt tactgtatga tgatgaggta atgacattac 360
 taaaggagag agtagggcag aaagacaaga aaagtctgcy tatggttgac tacagttaat 420
 actcgctgt tatgtaaaag a 441

<210> 16247
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A11

<400> 16247

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 gactcctca tgaaaattct cactgagagg ggttactcct tcacaacctc agccgagcga 120
 gaaattgtaa gggacatcaa ggagaagcta gcatatatag cccttgacta tgagcaagag 180
 ttggaaactg ccaagaacag ctcttcagtt gaaaagagct atgagctacc tgatggacaa 240
 gtaatcacca ttggtgcaga gagattcagg tgccctgagg tcctctttca gccgtcgatg 300
 attggtatgg aggctgctgg aatccatgag acaacattac aattcaatca 350

<210> 16248
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A12

<400> 16248

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caccgtgaaa ttccacaaac atgcatatat atatgaaaac cactaacatg agcttccttc 120
tccaccacaca cccctttctc acgcacttca cataccatct atagttggca ggacacgcca 180
cctctgggct cgtccctggg ccccatca gggccgttct ccgtcacata c 231

<210> 16249

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A2

<400> 16249

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taaaggtttg gagagagaaa aacgtcataa agccagcacc aggaaagagg cgctgcaact 120
gtaggaacga agtttaccat cgacaaatag gtcttgaat gtatcaacag atgactgac 180
aggctctgtga ccaatgtcca aatgtgaaat tcgtacgaga aggtgaattc ttgactgttg 240
atattgagaa gggaatgaaa gatgcacagg aggttttggt ttctgaggaa agagagccta 300
agattgatgg tgaacct 317

<210> 16250

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A4

<400> 16250

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caacctgcag gtgctgccgt cgaagcgggc gctcgcgccg ctgtccgtcg gccgcgtcgc 120
cacgcgccgg ccgcggcacg tctgccagtc caagaacgca gtggacgaag ttgtggtggc 180
ggacgagaag aactgggacg ggttggtgat ggcgtgcgag acgccggtgc tgggtggagtt 240
ctgggcaccg aggtgcgggc cgtgccggat gatcgggccg gagatcgacg agctggccaa 300

ggactacgcc ggcaagatca cgtactggaa ggtgaacact gacgacagcc ccaacgtggc 360
gttcacctac g 371

<210> 16251
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B1

<400> 16251

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tactgcattt tccgccctct agctctctaa gagatgtcac cttcaaaggg tgtaagaatc 120
tgatcctacc catggaggaa gaagctggat tctgtggcct cttgtcgctc gagtcagtga 180
ccatacgcaa atgtgacaag ttgttctctc ggtgggccat cagaggacga gcagctcaga 240
ctcagactca gagcatcatc aacctctctc cccctgcct gaggaactc tccctttatt 300
atatggaaac tctgcctcag aaagctctgc tcgcaaattt gacatctctt gaagaactca 360
cactacgtaa ttgtcttggc tgtgagcaaa gcaccgagcc gatggctctg cccgcgaatc 420
taacatctct taccattct 439

<210> 16252
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B10

<400> 16252

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aagctccctc ttctccctcg gcgtgctct atctctctct ggtgctcagc tccctccgcg 120
cgtccttggc tccaagcccc cgcgtggagc tcgccagct gtgacctgc cgagctccgc 180
ccgactcca cgtctcctgg tcgggctctc gttctatgct tgatgccgct gttccctggt 240
gtccctgct cggccctgc ccagcgctg actacagctc cagctcgcg cgctccctct 300
gcttagccag gattgtcgtg cctctgctcc ctgatttctc cagcccgagg agcttttgct 360
atgcgctccc tccctgctcc ggtcttctcc atagccgagc gcccgacgtt ctccct 416

<210> 16253
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-B11

 <400> 16253

 aaatcccgtc cccttcaccc gcactccatt ggcgccgttc ccctcccctc gccgcgggcg 60
 gagatctgat ccgatccgat ccgatccgtt tgtgcttgtg ctgcagcagg agtgagaagt 120
 aaaaaaatat ggctgccttg ccaactggcca ccgccgaagt atgcgacgct aaccctcacc 180
 tgatcatgaa cggcgagctc cgcgcgctcc agccaatctt ccagatctac ggacggcgcc 240
 aggtcttcgc cggccccatc gtcacgctca aggtctacga ggacaacgct ctgggtccgcg 300
 agttcctcga ggagaaaggc cacggtaggg tcctcgtggt cgactgcggc tgcagcatgc 360
 gctgggcat cc 372

<210> 16254
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-B2

 <400> 16254

 cccacgacac gactcgattc ccagacccat atccatccat caatccatcc gcagcgggca 60
 ggacacacac caggcttttg cgttggcagg gatggacgcg ttctactcga ccaccgactt 120
 ctctgcacg tcgtcagcgc cgtacggcgg ctacggcggc ggttgcaag gctggggcta 180
 cgactcgggtg aagaacttcc gccagatcag ccccgtcgtt ccagacccag cttaaagctcg 240
 tttaaccttac cctatgcgtg gcgctggcct 270

<210> 16255
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-004-Q1-K1-B3

 <400> 16255

ggagggggca caacatctca gacctacagt cttcgagtcc tcgttgtgcc tctcttgatc 60
tcttcgctc catggctcct gtgcgaggtg ccaagaagag aaagcggcca gagaagcccg 120
tcccggcgcc tactccaggg ttgccgctgc cgccgctgcc ggacggtagc gattggtggg 180
gcgtctacta ccgaagggtt gcatgacatt ccccttttcc aagagaacac cagaacatgg 240
agtctggcct gaagatgtca agaagaacct tctactgctt ctgctcactt gttaagaatg 300
gcctgacaac cgaggcata 319

<210> 16256
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B4

<400> 16256

ggctgcgaag gccaagctca gcggcggggt tcgggagccc gtggtacggc cccgaccgcg 60
tgctgtacct gtgccactg tgcggcgagc caccgagcta cctgacgggc gagttcccgg 120
gcgactacgg ctgggacacc gtgaggctgt cgggggaccc ggagacgttc gccaagaacc 180
gggagctgga ggtgatccac tcgtcgtggg ccatgctggg cgcgct 226

<210> 16257
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B5

<400> 16257

gtggactgaa aaactgagga gcatcatctc cgatgtacag gagaagaacg ggggtgactc 60
tgagctgcaa tgcgggcgca tgacagcctg cgtggaaggc ccatatgggc atgaatcacc 120
ctaccacttg atgtacgaga atctcgtctt ggtcgcagga ggcattggaa tatcgccatt 180
cttggcgatc ttgagcgaca taatccacag gatcgaagag gggcagcaat gcatgcccac 240
gaacgtgctg gtacttttgt tagttaagaa ggacaaggag ctttctctgg tgttcgacgg 300
tgaagcccag accat 315

<210> 16258
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-F7

 <400> 16258

 cccacgcgtc cgcgagcggc gccgctcgtt ttcgacgagc agcagttgcg gcggaggctg 60
 ggggaagcgg cgctccttct ccgcaggatc aaagggttg tgcgctggat cgtcgaagag 120
 gttgccgcgg gccgtcccc gtctatagtg ctccaccgtg cctgcagcta cgacatcccc 180
 gtcggcacgg acgtcctctc tctgctccac aaggactacc acacctaccg tctcaatgtg 240
 ctctgaagg tgctgtttgt ggtgcattca gtttctgtag cagaacaagc actgcttcaa 300
 gagggacatt tactacatgt acc 323

<210> 16259
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-F8

 <400> 16259

 caagaacgaa ggcagcctct gtttctctcc gaccggcgat gaggaacccg ccgggcaggc 60
 acctcctctg tctcagcagc cgcgcctgct gctcttctc ctctcatcg gcgctcggcc 120
 ccggaccgga cgctgctacc tccgcgcgt cccacgccc gcgcgccatc gcgcccgggc 180
 ggcccctgcg cgccagttcc ccacccccgc cttacgcagt cgcgcgccgc gcgtacgtgg 240
 aggacgggga ctgggaggag gtcgtcgctg gggggcctgg tactggggag atggaggaag 300
 aacaggacta cagggtggtg ttctggtecc cgccgaccat agacgaggtt accggcgcag 360
 tcaccagcat ccagcaagta ttgagaatc ctcttgact ggattcagat acaactgaca 420
 gacagacaac actact 436

<210> 16260
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-F9

<400> 16260

ccccatcgcc cagatccaat tcgcgagttc tttctcctct gccgccatgg cgctctctgt 60
ggagaagacc tcgtctggac gggagtacaa ggtcaaggat ctctcgcagg cggacttcgg 120
ccgcctcgag attgagctgg ccgaggtcga aatgcccggc ctcatggcgt gccgcgccga 180
gttcggcccc tccaagccct tcgccggcgc taggatctcg gggctctctcc acatgaccat 240
ccagaccgcc gtcctcatcg agaccctcac cgcgctcggc gccgaggtcc gctgggtgctc 300
ctgcaacatc ttctccacgc aggaccacgc cgccgccgcc atcgcgcgcg actcggccgc 360
cgtgttcgcc tggaaggggg agaccctcga ggagtactgg tggcgcaccg agcgctgnct 420
cgactgggg 429

<210> 16261

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-G10

<400> 16261

gggacctcat aatttccatc atatctttta ttgcgactca tctgancgat cctggaagca 60
ggaatttttt tttcttgatg tcttttgaga tttattgttg ttttttttta aaaaaagatc 120
attatatctt tctcaaatta ccaagtgttt gcatagaatt agggaaagac atgtagttca 180
catgcatctg tctttttttc tggatgtctc tccttacact ctctgtatct tctccttctt 240
tgaagaaggg aaaaaattga aataatcttc tatcttgga tggaaatgag ggaaaggggtg 300
gacattgttg aattaaaact tacaaaggct ggcttagaac tccatttccc tttgattcgg 360
gccccgctat cttcccaggc cccatcaccc tgcacccacc ctttctg 407

<210> 16262

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G12

<400> 16262

atggcgcgggg aggctgagggc cgccacctgg gttcagaagc gccacatgta cgcgcgggca 60
 ggtccaaaga cgacgacgac gacggacgcc gacaggccgc cgtgggtggg gccgacgacc 120
 atcgggtttc cgtcgccgcg cttatgacgt ccgctgcacg tgtggggcca cccgacgtcg 180
 cagcgcgggc tggctgaagc agcagcgggc actcccatgc tgctcgtgtg gccgcgtcac 240
 ctggcgccga cccggcacct ggcgcggagg gcgcactcga cgcctgtgga cccggcgttc 300
 tggcaccagc agtac 315

<210> 16263
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G2

<400> 16263

gccaaactttg catagtcaag gtaaaagaga attgcgatga ggaaatggaa tcgccaacaa 60
 agaacaattt gaatagcaac aatagcatca aagatatttc tcaagagcac aagaaattag 120
 caaatggatt caaccttttc cagaaggagc tggaaagact gaaagatgag aatctgtctc 180
 ctcttcttcc cctagacgtc aatctaactg acccatcact cagtggtttg gaaaggacat 240
 tgtcacaact cgatatggca aatgagcatt tgcaaagtat tttccatca tttaaagagc 300
 ttcttggttc tggcaatgct ttggaaagat tactcgctt ggaactcgag cttgcagagg 360
 ctctccaagc aaagaagaaa acaaacatcc tttccagaa gtcattcttg aagcaacaca 420
 atgatgaagc ggcgatcttc caaagc 446

<210> 16264
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H1

<400> 16264

ggcattagag cttccatgga aggaagcatc aactagcaa gccgagtgc tgcacctgtg 60
 gtcattgaaa tggaattgga aaccagtagc gttttgtatt tgctgttgga ttcttatatt 120
 tatttttagg aagtggggga atgtgtagca actaggaagc gaggaacaa catccagttg 180

atgtgaagca ttcattggcac agtaggcaat agtgggcaaag gggactata catacacact 240
 tacgggacgc acaacataaa taaagaatgg ttgattaaat aactatttat tttggggaca 300
 caccctagg atcaaccctt acttggttcg agtttgaata ctgatttga tcaacaagcc 360
 aataataatg cgctttgt 378

<210> 16265
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H10

<400> 16265

cgtcgggggtt gtttaagctct cgctaaacct atacgccggg agcacaacac aagtgtcgg 60
 cgaaatgact agcgccgggg cgccgacagg cgccgcgcta ggcgcgcgga cgccgcggtc 120
 ctgcgacggc tgcattgaggc ggatggcgca gtggcactgc cccgccgacg acgccttctt 180
 gagccagacc tgcgacgtct ccgtgcactc ggcgaacgcc tatcgcgcg cgacaccaca 240
 cgggtccgcg taccctctgc atcctgctcc tgacaccgcg cgaccgggac gcgctaacgt 300
 gggtccacgg cctcaagcga cgccacgca cgccactgac caagccaggg gggagcacga 360
 gcaacatgca tgaggcgac 379

<210> 16266
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H3

<400> 16266

gaaatccccg tgcagccttc ttccagctct tctactctt tgctactcgt cttoctgat 60
 ttctgcctta attccatccc ttccctgctt agaacttgc ttgcttcacc ccatcacagc 120
 ttttggtgcc tcgtcatcgg cgacctaacc gccggcgacc agataaacta agccaggccc 180
 ttogctccga aagtcgtctc tcgtagagag cacttgctca cctgctctc gccctctct 240
 gctggcagtg gacttgcgcg gactggagat ccatccggac ctggttcgat ttcttcatt 300
 cggttgcttc tcttgcaat ggggtgatca ctggattgtg ggttggtgta actgcatgct 360

ggcttgtcag cctattcata aggaaagtga aaaagagaca acatagccaa tttgtgtctc 420
attctt 426

<210> 16267
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H4

<400> 16267

gctagctgac ctccaatcca cgataaggtc atgataagct agctaggaag gcaagggatc 60
cgatggacaa gtacgagccc gttcgcgaga tcggagcggg caacttcggg gtggccaagc 120
tgatgaggaa caaggacacg agggagctgg tggccatgaa gttcatagag cgaggaaaca 180
ggatcgacga gaacgtgttc cgcgagatcg tgaaccaccg ctccctccgc caccccaaca 240
tcatccggtt caaggaggtg gtgctgactc ccacgcacct tgcgatcgtg atggagtacg 300
ctgcgggcgg ggagctgttc gagcgcacct gcgacgccgg gcggtttcac gaggacgaag 360
cgcgctactt ttttcagcag ctg 383

<210> 16268
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H5

<400> 16268

gaaatccccg ttcagccttc ttccagcttt ttctactctt tgctactcgt cttctctggg 60
ggcagcctta aggccatccc ttccctgcct agaacttgc ttcgttcacc ctatcacagc 120
ttttggtgcc tcgtcatcgg ctacctaacc gccagcgacc agataaacta agccaggccc 180
atttctccga aagtcgtctc tcgtagagag cacttgcetca cctgcttctt 230

<210> 16269
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-H7

<400> 16269

tcttgctact catctttctct gagttctgcc ttaattccat cccttccctg cctagaactt 60

gcttttagctt taccatcatca cagct 85

<210> 16270

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-F6

<400> 16270

attgccgttt caccggcggc ggggaggttt cgtgctagag gtgtgccggc agctggccgg 60

tgccggctgc caccgtcgac gtcttaacag cctaggacta tacgaggggt gcagtcgctg 120

cacatgagct cagagaatct gggctctcct gatgtcatct ttcacagct ggacattatc 180

gacgcttgta gcgtcatgag tcttggtctg agatcctcaa ggcttcgttt tggaatgcct 240

atatatcctg ttaaataatg 260

<210> 16271

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D7

<400> 16271

catcgatcta cacacatata tagtttcttc tactacacga cgacaaacat ggggaagcct 60

gcgaagatcg gagagtgggg tggatacgcc ggcgatcgtc gggatctgag ggctactccg 120

gaccggctga tcgaggtgaa ggtcacggcg gacaacagca gctgcatccg ctccatctcc 180

ttcatctaca tcggagccga tggcaaaccg tacgaggagg ggccatgggg ttccggccat 240

gctggcacgg agtacaagat tgatctgtgc aggttcgacg agagcttgac ggagatctcc 300

gggaccacgg gccagccta caacattgac aatctgggtca agtctctcaa attcgtcacc 360

aacaaacgag cttacggacc gtacggcagg gacgagggca ccccgttccg tgtcaagggtg 420

atgaacaacg gccacg 436

<210> 16272
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-E1

 <400> 16272

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 gctaagatcg gagagtgggg cggtatacgcc ggcgatcggt gtgatctgag ggctactccg 120
 gaccggctga tcgatgtgaa tgtcactgcg gacaacaaca gctgcaatcc gctccataat 180
 cttcatctac atctgacatc atggcaaacc gtacgaggag gggccatggt gtttctgcca 240
 tgctggcacg gagtacaaga ttgatctgag caggttctac taagagcttt acggagaatc 300
 ttgggatcca cgtgccaac ctacaacatt 330

<210> 16273
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-003-Q1-K1-E10

 <400> 16273

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 tgaatcacia tggatcctac caagtccgt ccgtccagta gccacgacac gacggtgacg 120
 acgacgaacg ctggcgctcc tgtgtggaac gacaacgagg cgctgactgt ggggcctcgc 180
 ggtcccatcc tgctggagga ctaccacctg atcgagaagg tggcgcaatt cgcgcgggag 240
 cgcaccccg agcgcgtggt gcaacgcgcg ggggcctncg tcaagggtt cttcgagtgc 300
 acccagacg tgacgtcgct gacgtgcgcc gacttcctgc gcgcgcccgg cgtgcggacg 360
 cccgtgatcg tgcgcttctc gacggtgatc cagcagncgg ggtccccgga gacgatccgc 420
 gacccgcgc 429

<210> 16274
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E2

<400> 16274

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gtttttcacc ggcgcgcct ctctccgcaa gggcgcggtc accgacgtcg tggcaatggc 120
tgccatcgcc ctgcttgccg gctgtgccat ggcccatgag gtgctgctgg gcgcatgcta 180
cggcggtctc gtcttctagc ccatccagtt caccttcaag gccggcgaca ccatcatatt 240
caagaacaac gccggctttc cgcacaacgt ctacttcgac ta 282

<210> 16275

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E3

<400> 16275

cgtcttcctc ttcctcttcc tctcctgcc tcgatctgac gagagctcag ccttgcctta 60
gtctcgccat cgcagaaggc agaagcacta gttcctgata gccacaaaac caaccaaagg 120
caccaaaggc caagctaccg tgagggtgagg gaaagggaaa gatcagatat cgcctattcg 180
cctacctctg tgtgcatcag aagatgatcc ccttcataaa gatgaaacat tccatttccc 240
tccactagaa gctccgggag gacgcagcaa gctcaccgaa gccagcaacc gatggatcag 300
aggcgcgta cggcgaggtt cggcagcaag acgagctcgg agcggaggat gctgcggcga 360
gtgaggctcc ctttctggtc ctgccctcca aaccggcctt caggcacctg aacgcctcga 420
atcctcgata gaacagctgg tc 442

<210> 16276

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E4

<400> 16276

gacacacgcg tgctgctacg tccgcccttt tttacttctt tttttatott gtcttttagct 60
tcatacttac cggggctttt ttcatttttt tatgtaaaat aaatatcccc gaacaacttt 120

attacatgca ttattacaaa gggcctacct accagtttat taacgtatcc aatagaaccc 180
 ttttgctcta ttccgttaat ttattcaact tatgacattc atgcaaaaaa cacctttaga 240
 caaaaaaacc ccgttttat 259

<210> 16277
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E7

<400> 16277

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 ttttgcttca aagcccagga tagatttgat aaagtactat ctgaatgtgt tcttgatgag 120
 aagagtgttg taccagtgcg gactcgggtc tctggaaatt gatagtgcg aagatgcgct 180
 ggaggaagaa gaggatgaag atcaacctga aggatccagc tctcttcaga ggactcaaga 240
 tgcccaagac ttgaagaagg tgccatgatt ctgctgacaa caatctgaca tgcttttttg 300
 catgtgcctt ttgttcaagt ttatgctgag acattgcac aagtgcgca ccattgctcc 360
 gagtgattgc aagtctaatt ttttgcagat tttttggttg aggggttgcg tcaactttggt 420
 tcagccatct tttgtggaca ga 442

<210> 16278
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E8

<400> 16278

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 cgtcccgct ctgcgcctcg acatacgac gctcttagat gactccaaaa agtccttcca 120
 ggatgccgaa tacaaggagt ggaagcatgt cgtgcaagag atcgcgaggt tctgcgagc 180
 tgactacca tttatgaaca tgaggccgct caggtacagc tatgcattcg atccgcccc 240
 ggacacgctt cgtactgtgc caactactgt caagaagcga ggtctcgtct taagtgcac 300
 catactttgc agctactatc ctaacgaggt caaatttaca gacctctcca tagatgtatt 360

cagaatggtt cagtgcctcg aatgggaacc atgtgggtca tttgcgctaa acgatgttta 420
cagcgcccat g 431

<210> 16279
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-F1

<400> 16279

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gcgtaccccc gccctctccg gcggcccgcg taaccaccgg cgcagatggc gacggcgggc 120
acggcgctcg cgacggcggc gaccgcttc acgctcctag cgggcgccgg cctccgcagc 180
cgcatcagcc gcctccccac cgacgtgcgg ttccagcgcc agcggggggt caccaccacc 240
gcgctcctga agaccgacga ccttcagccc aaggagcagg gcaagcccga gacgctcgac 300
taccgctgtg tcctcgctga cgcccggggc cggaaggtgt cgccgtggca cgacgttccg 360
ctgcgcgccc gggacggagt gttccactca gtcgtctaga taccc 405

<210> 16280
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-F10

<400> 16280

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gctctcacct cccgcgcgct cggcggcaag ccggcgacca gcaccaggga cgtttacggc 120
gaggggcgca tcaccatgcg caagactgct ggcaagccca agccagcggc gtccggcaga 180
ccctggtacg gggccgaccg cgtactgtac ctgggcccgg ctgtctgcca gacatcaagc 240
tacctgaccg gcgaggaccc acgagactac gggttggaca ccgcaggggt gtgcgccgac 300
ccggagactt tcgtcaagaa ccgcgagctg gaagtgatcc actgacgatg ggccatgctg 360
ggcgcgctcg gatgcgtggt cccggagctg ctgcgccgca acggcgctca gttc 414

<210> 16281

<211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-F12

 <400> 16281

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 ataaatgcat acgcctcaga tccgccatgg cgcgcccacg ccaccagccg accattcggc 120
 tgccgaacga gcgctcgaca ggcgactacg ccgtactgac ccagaggacc gtgctcatca 180
 gcggcttcaa cggctactac aactaccggc accaggcgga catatggcat gcataccaga 240
 tcatgaagaa gggcggac 258

<210> 16282
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-F3

 <400> 16282

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 gaggaagcgg cgctcctcct ccgcaggatc aaagggcttg tgcgctggat cgtcgaagag 120
 gttgccgccc gccgctcccc gtctatagtg ctccaccgtg cctgcagcta cgacatcccc 180
 gtcggcacgg acgtcctctc tctgctccac aaggactacc acacctcccc cctcaatgtg 240
 ctctgagggg tgctggctgt ggtgcagcag cttct 275

<210> 16283
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-F4

 <400> 16283

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 gccgtgtcac cggctgcaac aaagggatcg ggctagaggt gtgccggcag ctggccggcg 120
 ccggcgccac cgtcgtcgtc ttaacagcca gggacgagac gaggggtgca gccgctgcac 180

aagagctcag agaatctggg ctctccgatg tcatcttcca tcagctggac attaacgaac 240
gctgcgagcg tcagtcggct ggctgagttc ctcaaggctc gttttggaaa gctagatata 300
ctggtaaata atgcgcagct tgggtgctgtt gagtacgtcc aagatcctgc tgacagttca 360
acgagcgagg aagagctgag tggcatggat atggtccaaa ggcttcagtg catgcttaag 420
agagtccggg agacctacga cgctgcgaca gaagg 455

<210> 16284
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D6

<400> 16284

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atcatgtcat acaacttta gttaaacccc ctgcgtagct attttagtgt atgaatcatc 120
taccttggtc atacatcttt agtgaataga gtgtatctgt tgcccttctc gatagatgaa 180
tcaacaagaa gccctacgg gagttggaga gtttctacga gattttggtg ttccagtggg 240
cctgtggcga ctacttcaag aagtcggata taccgaagca cccaagtacc agtggccacg 300
cacggttctt agaggacaac catggtatga ggtagtagtg catattccag aacgtgctag 360
aaaccatctt ggccacattg gatgttccat gctgaaggaa tgactccttg g 411

<210> 16285
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B9

<400> 16285

ctgatcattc aactctccgt cttccttttg accataatat gtatggccag aaccttactg 60
ttcagaattt cttgaacgca tcagttcctg tttctgtgca agcaaccttc ccttataaat 120
tcgttgtagg caagttcttg cagcctggag cttatgatct ggttggttac atagtgtatg 180
agatcgacca gcaccttac cagaatgtat tctacaatgg cactattgag gtcgttgagg 240
ctggagggtt actcagtgtt gagtctgtgt tctcatcac ccttggaatc gctcttcttg 300

gtctcttttg attatgggca tatggccagg ttcagcagct ctggaagaaa acgaagaagg 360
 cccccaaggt ggagctcgga actggaacaa ctgatgccaa catcgatgag tggctggagg 420
 gcacttcggt tgtg 434

<210> 16286
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-003-Q1-K1-C1
 <400> 16286

aattggacag cagaaatata attcaacact atatatgtcc tagctgcaat aaaagataact 60
 cagccttcga tgcactacaa ctggtaagct acacggatga gtacttccat tgtgaaactt 120
 gcaatggtga actggttgca gagagtgaca agcttgcttc tgaggaaatg ggagatggcg 180
 atgacaatgt tagaaagcgc aggcgtgaga aattaaagga catgcagcaa agaatagaag 240
 agcaattgaa gccattgggt gcacaacttg atagagtga gaatattcct gcaccagagt 300
 ttgggagtct acaaacatgg gaaagagcaa atattggtgc ttttgcaatt ggtgaccctg 360
 ctgcagctga ttcttctagg aattcacaag ggcagtatgg tacaccaatg ccatacattg 420
 gagagacaa 429

<210> 16287
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-003-Q1-K1-C10
 <400> 16287

atctccctgc tcttgcgcct gcttcttgat ccagccaagt ctgggatcgc catgtcggac 60
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 catgctgaca ccgtccgtaa gaacggcttc atcgtcatta agaacctgcc ctgcaaggat 180
 gtggaggttt ctacctctaa gactggtaag catggacttg cgacatgcta ctttggcgcc 240
 atatacatat tgaacggcaa aaagctggaa gatattgaat cttcatcaca caactgagat 300
 attcctcatg tgaaccgtac tgagtactag ctgattgata tatcatagga tggatttgtg 360

agcctactta ctgcacatgg caacactaaa ggatgatctt agacttctaa ctgattagac 420

<210> 16288
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C2

<400> 16288

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tgaacatcga gggcaacggg tgcggggcggg cgctgccgcc gcagccgacc gtgaagggtgt 120
actgccgcgc caacccaac tacgccatga gcgtccgcga cgggaagggtg gtgctggcgc 180
cggcgaaacc caaggacgag taccagcact ggatcaagga catgcggtgg agcacgagca 240
tcaaggacga ggaaagttac ccggcggttcg cgctggtgaa caaggcgacc ggggaggcca 300
tcaagcactt gctggggcag tcccaccggg tgcgcctggt gccctacaac ccggactttt 360
tggacgagtc ggtgctgtgg acggagagcc gcgacgt 397

<210> 16289
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C4

<400> 16289

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ggtttttgta gacagaagtt gtacttccta gtgctcatct gcacaaatag aaatgattgg 120
atcacgtgtc gtttagaaaa gatggaataa tactgaaaca caccagactg aatcatctat 180
gtgttgcatg acgtggactg tgcgtttctt attattacgc actagcatag ctgaactaat 240
tctcttgacc tcgagttgcc tgggtgcctc ttcaaccttc atgttcagaa tagcatttgt 300
tgtgggatat catctcttat cttgggtatat gtcttcagtt tcagtctgct ctcttggagc 360
agacaaacag ctcagagtcc tatgttggtt ggttaaagt ctgcaggatt tagtgggtggg 420
gtatatggga gt 432

<210> 16290

<211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-C5

 <400> 16290

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 cgcacctcac ccagcgcccg gtcggtgccg ccacgctcgc ctccgctacc cgaccccgcc 120
 tagaggccgg gggcctcgac gggcgctgcc atgcgcaagc ggagtgggac taggacgacg 180
 cccactacat gcggcggtgc gtggagctgg cgcgcaaggc agacggccac accagcccca 240
 accttatgga gggctgcgtc atcgctcgag acggccgctg cttccgagaa ggattccacc 300
 gcaaggcctg acaacctcat gccgaggtat ttgcactaag agatgcatgt aatctagctg 360
 aaaatgctac ggcctatgtt agcttggagc cctgcaacca ctacgggaga acccatccgg 420
 tactgaagcg ctcac 435

<210> 16291
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-C6

 <400> 16291

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 acttagcggg gatccgagaa ctttcatggc ctgagttgat catgttgcaa agcttacggg 120
 gctgcatgat tcctataccg ctcatatac agagactgat ccaagcaatg gcgatcaatg 180
 aagctgatat tgccgtgaca cacacatgtg tctaagtga gacaaaaatg atgaatgctt 240
 gtaggcagat cattatagat cctacgctat gaactgacgc attatgcgct aagccgtgta 300
 taggcgtatc 310

<210> 16292
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-003-Q1-K1-C8

<400> 16292

cggacgcgtg ggttccattt cttttcttct tggaaatggt tcaaacagtg gttacatgtc 60

tcctgaatat gctatggaag gctcattctc tgtcaagtct gacacctata gctttgggtg 120

tctactactg gagattgtaa gcggcttaaa gattggctca ccccatctga taatggacta 180

tccaaatctc attgcttatg catggagctt atgggaaggt tgaaatgcat gggaataggt 240

ggactcgtcg gttctgggtga gttgtccact tcaggaagct gtacgatgca tccacttggg 300

tcttatatgt gtccaagaca gtccaaatgc gaggccgctc atgtcatcca ttgtgttcat 360

gctagaaaat gaaacagccc cggttcctac cccaaaaaga cctgtatatt ttac 414

<210> 16293

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D1

<400> 16293

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ctgggtctat gaagatgggc agtcagcatc ttgtgtggct ttcgtcctta tgatgtacaa 120

ggaggctgga ctctttgacc ctattaccag ctctattgaa gttactgaat tcacaataaa 180

agatgcttat atcctcaact cttttgagga caactcgacc cgacttccgg agtggggcaa 240

caaggatgac gatgtgaaac tttccttttg ccagatcaag gggcagtacc cgatggagct 300

gtctgtatac aacaccctga aaccctatgc gcacatgaac gcgagatgtg catacctgtc 360

tcc 363

<210> 16294

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-D10

<400> 16294

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gggaccacct ccccgctctt ctccctctcc tcctctcgcg cctccctccc tccccccacc 120

cgatttcaca cgtctctctc gctccgagcc ctctccccac gtgctcgtct ctctgccgcc 180
ctccctttcg cctccccact cgtttcaggc gggtagcgga cctgngcggc gacttcaatc 240
tcgtccgcgg gaaggttgag acggcggggg ctggaggtgg tgtgcgaggc cacgaccggg 300
cggcgccggg actcgggttaa gaagaggag cgccagaacg acaagcacgc catccgcaat 360
cacgcgcgca aggccgagat gcgcactang atgnaaaaag tcttaagagc tcttgaaaag 420
c 421

<210> 16295
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D2

<400> 16295
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cccgggaggt cgaactgcct tctagagccc tctcctgttt tcaggcgaat gtgcaggtag 120
cttgacgtct gatgaacgct cagccatgct gctgatgcta cacgaaactc ttcctttcgt 180
gaggccgacg agttcttgcc gggacccaaa actctccgag aagagtgcct ctgctttcca 240
cggtaaattg ggatgcagtg cggctctgaa ttcaacggaa gggcatcgtg tacagaaacc 300
acacattgtt cacagctaca aagttagctt cactaggacc agccatcatc tgtgtaaaag 360
cttaaacgag agaactacaa ggcaactgcct gcacgcgttc catgttaatg ctteg 415

<210> 16296
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D4

<400> 16296
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tacgccactg ataatgggtc cgttacatat tcgtgtccgt caggaacaga ttaccagatc 120
atcttctgtc cccccgtcga tcttgtgtca ttgtctccac ctccaacttc accattgtct 180
ccgcctccaa cttcacctac tgcaacaaat ggaacaagca gcacacatc ctcatcaaaa 240

tccaagaggc caagaatatt tggttatgtt ctaggtgggt caataggtgg cttcactttg 300
atcgcatcct tgggtcttttt cttcgtcctg catagacgac gattgcatcg acgccaagag 360
atgcaagaag aggaagaagc agagtttgtg aggctaccaa ggatgccag acggttcaca 420
tttgagcagc tacaggaagc aact 444

<210> 16297
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H9

<400> 16297

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gcttttggac gggtagccaa gaagctattc acaggccatg gccttggaaa ctcttgaaat 120
ccggcctgat actttcattc tgtagatgt tccagatgaa ctcttgggtg aaaggggtgg 180
tggaaggcgg cttgatcctg taacagggaa aatatatcat ttgaagtatt ctccgccaga 240
gaatgaagaa atcgcttcaa ggcttacaca aagatttgac gatacagaag aaaagggtta 300
gttgaagctg gagacttatt accaaaatat cgagtccttg ctatcaacat atgagaacat 360
tattgttaaa gtgcaaggag atgccacagt ggatgctgtc ttgctaaga tcgacgagct 420
gctgggttct 430

<210> 16298
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A1

<400> 16298

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gctccgcgc cgccgtcccc gccgcgggccc gcatcgcggt ccggcgcccc tggaacacgc 120
cacagccgga agcgtgcgc ctgcgectac gcctgcgcgc gggggcggtt cggcatgagg 180
acggcggttg cgtgcgcacg gtggagcatg agcagacagt accggggacg ttctacgacc 240
tgctcgggat c 251

<210> 16299
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A10

<400> 16299

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gattcagatc gccgataggt ccccgagag tggagacttg atctccgacc tacaacctaa 120
gtcaggatgt gaacattatg aataaaaatg atgttgtatt gatgagatgg tgaaattaga 180
ccagatgcaa acagagtcta ttaatatatta atctggcggt aaaaattgaa agtaaggact 240
cacttttagta agctatttct gcaaaagtat ctaagttgat tcttgctaaa gcctctcctt 300
gattcccaaa tccagcatat ccttgagagt cttttcttta gtcgggtaag tcttgctgag 360
taattccata ctcagggttt tattccctgt tgtttttcag gatataactt tgtgctgctg 420
tgatgggtgtt aaatg 435

<210> 16300
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A3

<400> 16300

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tataggcgtg gaaaacttag gagcagcttt ctgcctcgat ccccatgtgc ctgggagcat 120
tgccaaaaga aattacttac ccactggatc cgtacagtct gagagcctag attggcctaa 180
atattttccc aaaggaacat aaagattt 208

<210> 16301
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A4

<400> 16301

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 ttctctctcc acaggctgcc ccgcgcggtc gggagcagcc ggagcgctgc cgcgaggctg 120
 ctgctgctcc cgcctctacg gctgcgcgca ggccggcgcg ccgcctccgc gtgcgcggtg 180
 agggcgggcc tgcacgggct cgactccgtc ggcgggcccc atctccaggc cgcgctggag 240
 cgcgccaagg cggcgctata cacgctcgcc gacgcagcgg tagccgcggc ggacgccgac 300
 gcgggcgcgg tagacgacgc cagccaagct gcttcggaag ccagaagaa cagcagttgg 360
 gtcggc 366

<210> 16302
 <211> 228
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-003-Q1-K1-A5
 <400> 16302

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 actggcccag atcgagaggt acagcacgaa aaagagaagc aagagagata ggggaccgga 120
 gggcgggcgg ccggggccca agaccgaggg gctcgtgcgc aagaagctga tgaggctcct 180
 gtcgctcgtc ccttcgggt gccgtgctgg acccatcgac gacgcgcc 228

<210> 16303
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-003-Q1-K1-A6
 <400> 16303

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 gcgcagctgc gtctcgcggg gcctctccag ggccaaggcc tccgcctcca ggctcctctc 120
 caggcgctcg tcgtcctaca cgggtggtcga ccacacctac gacgcagtgg tgggtggggc 180
 cggcgggcgc gggctccggg cggcgatcgg cctctccgag cacggcttca acaccgcgtg 240
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tgcacttga aacatgagtg aagatgactg gaggtggcat atgtatgaca ctgttaaggg 360
aagcgattgg ctgggtgacc aggattctat tcagtatatg tgcagagagg caccaaaagc 420
tgttataga 429

<210> 16304
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A9

<400> 16304

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gtgggtgcat cctcgccgag ctcatccga ctacgccggc ccgcccgggc ggcgcggcgt 120
ggcccgcgg caagtgaag cggcggaagg cggacgactt cgaggccgcg ttccgggagt 180
tcgacgagga ctccgcctcc gccgccgggg ccccgccag ccgcaagcgc gcccgcgccg 240
ccgacgcgt catcgacctc gaggaacaag agcagcggcc gcccgcgggc gccctgaagc 300
acgaggccgc cgagtgtctc ggatccgacg cgctcccga cttctcgtgg cagggcgtgt 360
cggcggccta cgacgagccc cccgcgccc gcccggcctt cgact 405

<210> 16305
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B1

<400> 16305

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gccacctcc catggccacc gtcgactgcc cctgcccctc tcccgccgac ctgcgacgaca 120
acggattccc ggctctaccc ttcttccccg ctgctgtag cagcggttc tcggaggatt 180
tctaccgcag cggcacctac tggctcttct tacgcgccc t 221

<210> 16306
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B10

<400> 16306

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aattggagat gttgaaaaat cagtttccct tcttaaacag aaataaatat tgtaaatgaa 120
gggaaatgta atagaacacc cttttcgcca cgggtaaaaa tgacagaaat gtatggtttg 180
ttttaccttc atttctgtta caattaaaac ttgttagtct aaacttttac ttcttcccaa 240
cttaacccta actctttttt tttattttcc tttatggact gcattcttaa tttctaactg 300
gtaaacactt gattggagac tttttttaa 330

<210> 16307

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B11

<400> 16307

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ttgctctctc taaaagactt tgctaattgg cctgctagcc ggtctccctc ccccggcctc 120
tttccctttc agctggagga gatagatgag agagaggatc agaggaagca ggaaggagag 180
agggatatat aggccggtgt cttctgtaga gagagagatt gagagcaaaa gggaaataaa 240
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ctcttacatc accccttctt caccttcttc ttgttcttgc tcatccctcc tctccggccc 360
tctcttcctc ctgcctctct ctagctagga cgatcttcac aaaccctttc ccctctaatt 420
ctc 423

<210> 16308

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-B2

<400> 16308

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 ccgccatctc acaggacaac gggcttgtgc cgatcgtgga gccggagatc ctgctggacg 180
 gcgagcacgg catcgagcgc acgttcgagg tggcgagaa ggtgtgggccc gaaaccttct 240
 acgccatggc ggagaacaac gtcatgttcg agggcatcct gctgaagccg tccatggtga 300
 cgccccgggc ggaggccaaa gacaaggcca ccccgagca tgtggccgcg tacaccctca 360
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 aatcgagggt ggaggcgacg c 441

<210> 16309
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-003-Q1-K1-B4
 <400> 16309

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 accaagcaga taatgattac cagtcactta agctctgatc cctggtacac atcgatgcgc 120
 tagaccctct aggagtogaa tagccaccag ctaggagagc gtgcaaatga ggccgacgac 180
 ggcatgttca ctgatgcatg cggcgacgca aactgttagc ctgatcagcc agctcatgat 240
 actgtcctca actccatata caatatagca tggactaaat gaacgaatgc actca 295

<210> 16310
 <211> 129
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-003-Q1-K1-B7
 <400> 16310

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 cagcgcta 129

<210> 16311
 <211> 430

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F9

<400> 16311

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ggcgctcccg tcttcgacca atactgcgat gcggatctcg gtgacaacgc catggagcgc   60
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tgctacggcg agcagtcgcg acgcggacac actccttctt ccttcaacga cgatttgggc  180
gcctcgctcg actcgggtcg caacagctcc gtccatggcg gccacggatc cgtgctgccc  240
cacctcacgc ccatctgcgc gggcactagc aggatccctg tgcccgaacga ccggaggctg  300
gactgcgccc aggatttcga caccaatcac ttggacaagg ggttcgagtc ggatcccgtc  360
cctcttcccg tcgtctacga ccgctacgac gagccgaacc acaacgagat cgttgaggctg  420
ctcgcgctac                                     430
  
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<210> 16312
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G1

<400> 16312

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cgacttattg aggtaataaa gcaagcagca taggaagggg cactggttct ctacaccgct   60
gccgatcctt caatggccga ggcgactaag aaggcctgcg atttctgggg tgttccatgc  120
accgatgttc ttccggcctac tgtcgaagcc attgcctctc acatcgggtg tgctccatct  180
ggaattccac gaagctctcc gagtcgaaat ggtcggctat cagaggatta cttccaacgg  240
atcgatgcta tcgatttcac catcaaacaa gacgacggtg ctctgccaca gaacctctac  300
cgcgagaca tcgtgcttg                                     319
  
```

<210> 16313
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G3

<400> 16313

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 acccacgcgg cgggacgaac ggcggaaccg ggcgggcgcc gacggaggcg aagctgaagg 180
 tggccatcaa tgggttcggc cgcacgcggc gcaacttctt gcggtgctgg c 231

<210> 16314
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-G6
 <400> 16314

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 cgccgccccg cggccacaag cgcaagcagt gaacacggcg cctcctcgct cgcgcgccca 120
 cgcccccgtc gtcgtcttct cccggcaggt actacagcgc ataaatacgc agcaccgccg 180
 cccggctcgg ttcccgtctg gccacccatc cgatcccacc cggcagcggc gctgcgcaat 240
 ggccaccac gcagctctcg ccgcctcccg catccccgcc ggcgcccggc tgcacagcag 300
 ggcgccggcg tcgtccaggc acggcgtgca gaggtgagc ttcgcccact tctccgggct 360
 caggccgggg tcgtgctcgc tgagcgcctg cgcgcgggag gcgtncctttt tccgacgtcc 420
 ttggcgcgca gctcgtc 437

<210> 16315
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-G7
 <400> 16315

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 cttctccttg gttgcgttgc gctccctcc tgtctgcgtg cgtgcaatcg acgcagaggc 120
 gcgggcgctc gcaccaccac gaccacgacc cgatggcttt catgcgctcc cgctcaaatg 180
 catcttctgg catgggagtt gctcctaaca ttagggagac attcgctcag cttcaaatga 240

agaaggcatt ccgatatgtt atcttcaaaa tcgaagagaa gcaaaagcag gtggttgtgg 300
 agaagacagg ggctactact gaaagctatg atgactntnt ggctctctc ccaaagatgg 360
 actgccgata tgcgctggat tgatttgaat ttggtactgg gg 402

<210> 16316
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-002-Q1-K2-G8
 <400> 16316

aaacaaccgg agcttttacc ccacccgctt tccctcccc gccaggaaca acagggcgcc 60
 tcgcaataat tcgtccatcc atggcgagc tcgtcaacaa gctggtcgat tcgttcgacc 120
 accacgaggc gccggcgccg gacgtcggct gcgtgcgcgc cgtgctggcc gagctcgtcc 180
 tcaccttctt ctctgtcttc accggcgtct ccgctccat ggccgcggg gccggcgga 240
 agccccggga ggctatgccg atggcgagc tggcgcggt ggctatcgcg cacgcgctgg 300
 ccgctggcgt cctggtgacg gccggcttcc acgtctccgg cggccacctc aaccccgcg 360
 tgacggtggt gatcttggtt cgcggccaca tcaccaagct ccgggcgctg ctgtacgtcg 420

<210> 16317
 <211> 180
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-002-Q1-K2-H1
 <400> 16317

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 aagttagaag aagcaccagt gctgatcga tggcgccca ggctctctc tccggcgcc 120
 agctgctggg ccgccccgtg cagtcggccg tctctaggtc gtcggcgagg aaagcgccct 180

<210> 16318
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3060-002-Q1-K2-H10

<400> 16318

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aggtgcctca caccatacga tctgctggga gctgctgctt caggctcgtcg catcaactat 120
ctgcgcagaa tctggggcga catcgcaggt ggcggggggac cggaaagaag aagatccttt 180
ccacccgtgg cgtgcttgag tccaggaacg gtgcgcatcc tgggtggcctt acgaagagaa 240
agaaggctgt ggagcacatc atcctgctca gagccaagcc caacatctca gacgctgaag 300
agaaagacat gctggactac ctatacacat cgcagtacca gatgcgaggg atacttgctg 360
tctcgctagg ccgcatcgag gacccaaca gcgacaactt cagcgacgct gngttcatgc 420
gtttccag 428

<210> 16319

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H11

<400> 16319

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aggagaaaag gggagagaga ggtgaggcgc ggtgtccgcc cgatctgctc tgccccgacg 120
cagctgttac gacctctca gtctcagtca ggagcaagat gggtgccggc ggcaggatga 180
ccgagaagga gcgggagaag caggagcagc tcgcccagac taccggtggc gccgcgatgc 240
agcggtcgcc ggtggagaag cctccgttca ctctgggtca gatcaagaag gccatcccg 300
cacactgctt cgagcgctcg gtgctcaagt ccttctcgta cgtgggtccac gaccttgtga 360
tcgccgcggc gtcctctac ttcgcgctgg ccatcatacc ggcgctcca agccc 415

<210> 16320

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H12

<400> 16320

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 gatataaagg gagagagagg ttatgcgcgc tgtccgtccg atctgctctg tcccgaactca 120
 gctgggtacga cctcctcagt ctcaaactg agcaagatgc gtgccgacaa catgatgacc 180
 gacaaagaac ggcagaagca tgagcacctc gcccgagcta ccggtggctc cacgatgcag 240
 cggtcgccgg tggagaagcc tccgctcact ctgggtcaga tcaagaaggc cattccgaca 300
 cactgcttcc agcgctaggt gctcaaactc ttctcgtacc tggtagacga cctgatgatc 360
 gtcg 364

<210> 16321
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-002-Q1-K2-H2
 <400> 16321

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 tgggcttggg cagctaaccg gttaattgac aaggatgagg cagaaactcc agacgatgct 120
 cctttaaatt atttgccgcg gaagaggcta attttgacaa gccagttgat ccagcaactt 180
 ctccctgcta taccagcgac cattctgaga gcacaagctg tgtctgctta cggaagtgcg 240
 acatacactc tatcaatgtt gacactaagg gatgcatgca gcatggcatc atcatcatca 300
 tcatcatcat ataactcttg ctcacctgtg gaggatgaaa ataaccatc tgaacaaccg 360
 agtgctaaga aaatggaaga cagagtgtc 389

<210> 16322
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-002-Q1-K2-F8
 <400> 16322

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 catcgtcggc cggatcctgc tcggcttcgg tgtgggggtc acagcgcagg cggctccgct 120
 gtatctggcc gagatatcac ccaccagatg gcgcggcggc ttcaccacgg cctaccatct 180

cttctctcgtc gccggcagc tcgccgccaa cgtcgccaac tacgtcacga accggattcc 240
cgactggggc tggcgcgctc cctcggcct cgccgcgctg ccgtccgcgc tcacgtcat 300
ggcgcgctc ctcgctctcg acacgccag cagcctcgtg ctgcgcgcg agccgtacgc 360
agcccgcgcg tcgtgcagc gcgtccgcgg ggcgggcgcc gacgtggagg ccgagctcaa 420
ggacatca 428

<210> 16323
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E11

<400> 16323

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ggtcattaac cacattcaaa ttctactcca cctgatcgag aaacattcat acgacctcaa 120
tatgagctct agcacttact ccagcctagc tcgcctattg attctgatca cgctaccac 180
tctcgataac atccctgata cgctcctcaa ccctatagct ctaatactca actcggcatc 240
ttcgagtaca ttggagactc caatgtcaat gacactcaac atactaatct agccatccac 300
gatatgccca gctttgacct ttatcgcgca ctgacacttg gccaac 346

<210> 16324
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E12

<400> 16324

cccacgcgtc cggggaattc tcaggcaaac gcaatatatg aggcttttat accagagggc 60
tgccagaagc cacattcaga ttctaccag gaagagcgag aaaaattcat caggtctaaa 120
tatgagctgc aggaatttct gaagccaagc ttgcgcatg tttctcatca gcctagtgc 180
tctggaaaac atgccgaaa tgcttctcat tctgatggtt ccaagagtca agtcggcatg 240
atcgagttca ttggaatatt gaatgtcaag gtgattggag gcaccaacct agccatcagg 300
gatatgtcaa gcagtgacct ttatggcgct ctgacacttg ggcaacagaa a 351

<210> 16325
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E4

<400> 16325

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acgacaagca tatatggggg agatcaccaa tgtcatggag taccaggcca tcgcaagca   120
gaagcttccg aagatggcct acgactacta cgcgtccggc gccgaggacg agtggacgct   180
gcaggagaac agggaggcct tctccaggat cttgttccgt ccgcgcatat tgatcgacgt   240
gtccaagatc gacatgacca ccaccgtgct ggggttcaag atctccatgc ccatcatggt   300
cgccccact gctatgcaga agatgggtca ccagatggg gagaacgcca ctgcgcgcgc   360
ggcggctgcg gcaggcacca taatgacact gtcgtcctgg gcaac                     405
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<210> 16326
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E7

<400> 16326

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ccacaattgc atactgcact tgaacatata tagtactcat gaagttgttc tacatcatat   120
tggatttcaa tgctttttta tcagtgcacg ttttctcttt tttggtgagt acagtaattg   180
tatttttatc ttgtaataga ttagttttat tcatacgaca agcactatgc actgtgatat   240
ttgttgattt ttcctttt                                     257
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<210> 16327
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E9

<400> 16327

cccaacaagc ccgcacgaca cgacaccaag tcgaggagct cgagagggca ccaataatgg 60
 ccggcgtgaa ctccagcgtc gtcggggtca agcccgcgcg ggcagtgccg caggccgcgcg 120
 ccgcctcatc gccggcgaa ggggtgcagc tggccgcgcg cgagggccgc cgcgccgctc 180
 tgctcggcct ggcgggcgtc ttcgccgtca cggccaccac cgggtcggcc aaggccacga 240
 tcttcgatga gtacctcgag aagagcaagg ccaacaagga gctgaacgac aagaagaggc 300
 tggccaccag tggagccaac tttgcgcgcg cctaca 336

<210> 16328
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F1

<400> 16328

gacatatagc gggtccaaca agcgctagcg cctgctcggt ctattctcct ctcttaagcg 60
 atggcagtcg cagcgcatgc actcggctgg tagccggtct cgacagcata gaacccaact 120
 tcaatcatgc ctgcgctagt tccgaactca ctcagcacc agtacacgct cgactgtcag 180
 tcgattgata tcaactgttac gctcattgct gccatcgcac aactgagccg caactgggtga 240
 catccatgct gctgggtcaag aactagtcac aggaagaata t 281

<210> 16329
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F10

<400> 16329

gagcagcaca cagcgagcta gctaggagca gcagcagagc agcggcgatg gcggcctcga 60
 tgatctcctc gtcagctctg gcgggtggcg ctcagggcct gccgcccctc ggccgcccgcg 120
 cctcctcctt cgccgtcgtc tgctccaaga agaagatcaa gaccgacaag ccctacggga 180
 ttgggggtggc ctgaccgtcg acgtcgacgc caacgggaga aagggaagg gcaagggcgt 240
 gtaccagttc gtcgacaagt acggcgcgaa cgtcgacgga tacagcccaa tctacaacga 300
 ggatgactgg tctcccaccg gcgacgtcta cgtcggtgga accactgggc ttctgatctg 360

ggccgtcacc ctcgctggga tcctcggcgg cggcgccctc ctcgtctaca acaccagcgc 420
cc 422

<210> 16330
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F12

<400> 16330

cccgggtggac gtatgcgtac tagcatccac tcacaaatgc ctccgaactg ccgaacagca 60
ccatcgacct gggcttcgcg gacttcgtcg gcaaggccgt caacgtcccc tcatcgtccg 120
ccttccgcta gggccccgtc acgatgctca agactgctct gaaggccaaa ccagatcaag 180
actgccaaac cctacggtac tgcccctacc ctgacctgca cctgggacca ctgcccgaca 240
agccgccaag ctacctgact gtccaattcc cgggccacta ccggtgcgac accgcacggc 300
tacaggccaa cctacaaacg ttatgactga actggcagct gcaactgac cactcccgct 360
accacatg 368

<210> 16331
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F2

<400> 16331

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gcgcatctcg cagcaagat gcgggctcca aggggcgcat gcggtgccg cggcggccag 120
gagcatgtgg aactgatccc tggcatcccc gacgacgtgg ccgaggactg cctggcgcg 180
gtccccacg cctcccaccg cgcgatgcgc cgggtctgcc gcggtggcg gagcgccgcc 240
gcggcgccgg ccttcgcgtc ggcgcgcgcc gcggcggtcg ccaacgagga ccttgtgtac 300
ctgatgc 307

<210> 16332
<211> 431
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F3

<400> 16332

ctagaagagc ggcggcgcg gcggaacaagg atcaggcgga ggaggagctg tgccaaggga 60
cagtgggtat ctacgcgcac tcgatgcaca agcgccgtgc caccggtgga aagcataagg 120
cctggaggaa gaagcgaaag tatgagcttg gtcgtcagcc ggccaacacc aagttgtcaa 180
gcaataagac agtgaggagg gtccgtgttc gtggaggtaa cgtgaagtgg aaggctcttc 240
ggcttgatac tggtaactac tcatggggaa gtgaagctgt taccgcgaag accggtatcc 300
tcgactaggt ctacattgca ttaaacattg agcttgtgag gacacatacc cttgtgaaga 360
gtgccattgt gcaagttgat gctgtcacat tcaagcagtg gtacctcact cactatggag 420
ttgacattgt t 431

<210> 16333

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F5

<400> 16333

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cctgggcgcc cgtctggcgc accaggcgcc acagaacggt ctcatcgctg cccgcttagg 120
gtccgacttg agcggcaagg cgaagcctgc tcctaagaag gtggcgaaga catcgacctg 180
ctttgaccgg ccgctgtgga tccacggcgc cgtgacaccc gactacctgg acggctcgct 240
ggtcggcgac tacggtgtcg acccgttcag cctaggcaag cccgcagagt accttgacga 300
tcgagtacga ctcatggac cagaacctgt gcatgaatga cgccggc 347

<210> 16334

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F6

<400> 16334

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 tgctgactac aacatccaga aggagtcaac cttcatttg gtgctgcgcc ttaggggagg 180
 catgcagatc tttgtcaaga ccttgactgg caagacaatc acccttgagg tggagtcttc 240
 agacaccatt gataatgtca aggctaagat ccaggacaag gagggcatcc ctctgacca 300
 gcagcggctt atcttcgccg gcaagcagct tgaggacgga cgcacacttg ctgactacaa 360
 catccagaag gagtcaaccc tccacttggg gctgcgcctt aggggaggga tgcagatctt 420
 tgtcaagacc ttgactggca ag 442

<210> 16335

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F7

<400> 16335

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 ccgcacggcg cataccctca cccgcacggc ggccacgggt accctcctcc cgccacctac 120
 cccgcgcact cggcgacta cgggcacacg gggtcgtacc acaccagcca caacagctac 180
 ggcgggcgcg gcggccacca cggcatctac ggcgggcgga agcacggcgc gttcggcgcg 240
 ggcaagcaca agagcggcgg cggcaagttc aacaagtgga agtgaagcga ccgaaacgaa 300
 tcaaaacaac acccttaagt ctgccttcgc acacgtgcac ccgcacacga atcct 355

<210> 16336

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-002-Q1-K2-E10

<400> 16336

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 gttgggtgat tacgacggag tgggatgggc ctctcgaca agctgtggga cgacaccgtc 120
 gcggggccgc gcccgacac cggcctcggc cgnctccgca agcagcccg gcgccccgc 180

gccgttaaga tcagtgatcc ggccggggac gctgcagcgc tcgtgccgcc ctgcgccgct 240
 tcgggtagcg aggagacgcc ggtgaagggtg acgcgcagca tcatgatcaa gcgccccgcg 300
 gggtagccgt cttgcgccgag gagegcggca agcacgcgcg eggcctctcc acttgggact 360
 atccccgcca 370

<210> 16337
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C7

<400> 16337

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 cggggtcgct gtgggcctat ccgtggtaaa tggatccctg aagcccgagg cgtagatggt 120
 gtaggtgct gggccttgta gtttcggccg aatacaagtg tttgggcttt agcgcttcgt 180
 tgtcgggtgc gctgtaattt gctgatgacc tcttttgtgt gtaaattgtt attattatag 240
 caattattgg agtgcggata tgggcagct 269

<210> 16338
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C8

<400> 16338

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 cttactacca ggaggtggac tactgctcgg aggaggtgag gtcggtggcc cgggccggtt 120
 tcggccgcca cggcggcggc gtccagcagc acgtcgtcaa ggaaaagttc gaggaggtcg 180
 acacggtcga acgcgccggc gcccaaccacc accaccacca tggtcaccac ggcggccacg 240
 gtttcgtggt gcgcgagacc agggtaagg aggacatcaa cacctgcacc ggcaaggctc 300
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 acgcccgttc gtgcttgctt 380

<210> 16339
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C9

<400> 16339

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gcactcatcc tatactactt attctaattt ttacccttta cacattaaca tctcaaagtt 120
cacctcacat tactaatact tatccatata agtttaacta taagccttat cctgtataga 180
taccatcact tctatcaaac ttatcattat ccgtaatata ctactctgaa tatccatata 240
acaatctact attactacta ttcatctcca atcaacatca acatcttata ttatcaa 297

<210> 16340
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-D1

<400> 16340

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aaaagagata gaagaagatg gacgtaggat caatcaactg agaagtcaaa ttgatgatat 120
acgacggcgc caacaaaaca aactaacggc cttcggagga gatagagttc cgagcctcta 180
taaatacagta gagagacaca tgagtaaatt caaatgcctt cctattgggtc caataggata 240
tcatctgcaa ctggcaagcg attcctgggtc tgttgcaatt gaatatgcat tanggaggtt 300
attagatgct ttcatgtgtc catgtcataa ggattcactc gttttacgag aatgtgcaaa 360
agaagtgaac taccgcaacc ttcaaattat tatatatgac ttcac 405

<210> 16341
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D10

<400> 16341

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acagaaacta aagcaagtgt tggatttaaa gctgggtgta aggattataa attgacttac 120
tacaccccg agtacgaaac caaggatact gatatcttgg cagcattccg agtaactcct 180
cagctcgggg ttccgcctga agaagcagga gctgcagtag ctgcggaatc ttctactggt 240
acatggacaa ctgtttggac tgatggactt accagtcttg atcgttacaa aggacgatgc 300
tatcacatcg agcccgttcc tggggaccca gatcaatata tctgttatgt agcttatcca 360
ttagacctat ttgaagaggg ttctgttact aacatgttta cttccattgt gggtaacgta 420
tttg 424

<210> 16342

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D12

<400> 16342

cccacgcgtt ccgagaattc ttaagccatc acaatatatg aggtctttat gcgcacaagg 60
ctcacagact ccaccttgag attctaccca agatgagcga gaagaattca tcaggactaa 120
atacgagctg caggaatttc tgaagcctac cttgcacatt gcttctcatc agcctactga 180
ctctgtaaaa catgccgcaa atgcttctca ttctgatggg tccaacagtc aagtctacat 240
gatcgagtac attggaatat cgaatgtcaa ggcgattgca ggcaccaacc tagccatcaa 300
ggatatgtca agcagtgacc cttatgtacg cctgacacta tgtcaacata aagcaciaaac 360
ttcagtaatc aatggcaacc tgaatcctga ctggcatgaa gaactgaagc tctctg 416

<210> 16343

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D2

<400> 16343

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caggagctcg acgaattact tctgaataac ttcagaaatc atatggaaga accatagcat 120

ttcgcgattc attggtaaatt ttactttgat tctctataga ccaataatgt gagaccatta 180
acacgggttaa agctaaactg cttgaagtcc gggcaaaaag ggggtactctt tctacaacta 240
cattagtatt actctcgaaa tgcttttaaac gggaaatagc tagtgtagaa tgtatctgat 300
atacaacact catatcgatg aaatagtttg aactatttac tagaaaggca acccatcctt 360
tttcccatgg ccaatcgacc acctaataatg taaaaaaagg gaaatttttt ggaattggag 420
gacaaattaa agggattc 438

<210> 16344
<211> . 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D3

<400> 16344

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ggtcgcagaa ggcgctgtcg atgccgacgg ggatgggcat cgtgtgcgcc agccccaggg 120
cgctggaggc cagcaagacg gccagggtccg tgcgcgtctt cttcgactgg aaggactacc 180
tcaggttcta cgacatgggc acgtactggc cctacacgcc ctccatccag ctctcttacg 240
gcctccgcac cgcgctcgac ctcatcttcg aggaagggct ggacaacgtc gtgaggaggc 300
acaaccgect tgggacagcc accaggctcg ccgtcgaggc gtgggggctc agcaactgct 360
ggcagaagga ggagtggttc agcgacaccg tcaccggcgt cgtcgtgccg gccaacatcg 420
aca 423

<210> 16345
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D5

<400> 16345

cacaaacagt acttcgtctc ttccgatgtc ggtgccggta aaatgcaatg gtatgctttt 60
cacaaggaag aggctggtgg cactgaccct gagaacggca aaaagaaaag attgcttgag 120
atatttgatg ggtggtgtga taatgtcatc gatttggtta acgcaaccga cgaagaagcg 180

attcttcgcc gagatatata cgaccgcca cctactataa attgggggaa aggtcgtgtc 240
accttgctcg gcgattctgt ccatgctatg cagccaaatc tgggtcaagg tggctgcatg 300
gctatggagg atggttacca gctggccgta aaactagaga atgcctgcc aagagagtgtc 360
aagactggaa ctccatgga caatagttcc tccttgagac gttatgagaa agaagagaag 420
ggtgcgtggt gctgttatac a 441

<210> 16346
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D6

<400> 16346
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gtcgtcggcc ttccttggcc actctagccg cctcgccgc accgcgtcgc ccacgaggcg 120
cagcctcaag gcggaggcca agggcgagt gctccccggc ctccctccc cctcctacct 180
cgacggcagc ctggcggggtg acaatggctt cgaccggtt ggctggcggg aggaccccga 240
gaacctgcgg tggttcgtgc aggcggagct ggtgaacggc cgggtgggcca tgcttggcgt 300
ggccgggatg ctcatcccg aggtgctgac caaagccggg ctgatcaaac gcgccgaagt 360
ggtacgacgc cggcaagtcg gagt 384

<210> 16347
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-D9

<400> 16347
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agtctagcta gaatacactc gcgttcaaaa caaacacaca gcgtcgtgct gcgtgatctc 120
tgaccgcgtc gacaactacc gcagcaccaa gcagctgatg gcggccaccg tatcttcctg 180
cctgagcctc gtccccaccg tgcaccaccg ggccggcggg ttccccagca gtgtggcact 240
gacgaacacg cttcagcgcc gtcgtcgttc tcgccgctat cttgtcgtcg cctcggcgac 300

gagagccgaa caggaggccg nccctgtgac gatcgaggac gtggacctca gctctcatca 360
ggccgcggcc gacgacgggg agc 383

<210> 16348
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E1

<400> 16348

gatcggaaac agaagtccca aattctttct tttgcttggc caagtgccaa ttgggaggca 60
gaacggaaga cagaacctgc atgcgaactt tagtcgcgct gatttcgatg gaatcggaac 120
tgatttaggt gtatttttagc tctgattggt cttggcagga gtacaatttt agtagcaccg 180
attgatggta cggttcttct gggtggtaaa ttgcccttac tgcgacgcga tgtcagactt 240
cgatctctgt tggaagacgc tagacattgc agacatagat attgttactg caatcatgag 300
ctcgaaatcc aaatgtaatc aggtgccagg ttagacaatc gctggaacat gtgtaaaagc 360
tggacgaggt ttcatatact cgattgaatc ctcggettgc gcgctaaatc 410

<210> 16349
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C5

<400> 16349

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ttgcccaact tccaccactg aggcgatgca ggaggccaag cacctcacca cctcaaagct 120
tccgccgcaa tccaatcct catccccatc cccttcgggt cccgccgcga accctcccc 180
ataccatcac gactatggta cttttcaccg gccgtttcag ccgacgctgc ccgtcgtagg 240
ccccgcctac catgactacc atgcctctcc tatcgggttc ggcagccagg gggttcgttg 300
ctaccggggc gccgtccagc agcaggtctt cgtggagggc atccccgtcc gagagccggc 360
cttaccgttc tgcggcgctc gcgtcggctg gtttttggtc taattggggg tcttcttggc 420
ggcaatcccc tggtatgct 439

<210> 16350
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-A7

<400> 16350

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cagcacgatg gcccgtacg accgcgccat caccgttttc tcccccgacg gccacctctt 120
ccaggtggag tacgtctctg aggcgcgtccg caagggcaac gccgccgtgg gcgtccgcgg 180
cacggacacc gtgcgtctcg gcgtcgagaa gaagtccaca cccaagctcc aggactccag 240
gtccgtgcgc aagatcgctt gcctagacac tcacatagct ctggcggtgcg cgggtgctgaa 300
ggcggacgcg cgcgtgctca tcaaccngc gcgggctcgag tgccagagcc accgactcac 360
cgtcgaggac cccgtcaccg tcgagtacat ccccgcgtac atcgctgggc t 411

<210> 16351
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B10

<400> 16351

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gtcttcaacg gatcacactg ccgctcccc acgctaaatt tgggggctac agtgcacacg 120
ctagcctatc aacggctcac gctaccaggc gctctacgcg gatgtgcccc ctagccagct 180
tctctctccc cctcgttctg tgggtgctct ctcacctct ctaatatattgt tcacgtgggc 240
ccacttccaa ttattagtag atgaaaaatt gataggaggt gaaaagtagg tatagaaaat 300
gatattttat ggttgtagtg ggggtataagg ggaaggattt aggggggaaac gctgtacaga 360
gtggagatat aggggggaag agaacgctga cgtggcacgt gagtgggata tagggagaga 420
aatttagggg taaccgctga ag 442

<210> 16352

<211> 331
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-B11

 <400> 16352

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 aggagaaaag gggagagaga ggtgaggcgc ggtgtccgcc cgatctgctc tgccccgacg 120
 cagctgttac gacctcctca gtctcagtca ggagcaagat gggtgccggc ggcaggatga 180
 ccgagaagga gcgggagaag caggagcagc tcgcccagagc taccgggtggc gccgcgatgc 240
 agcggtcgcc ggtggagaag cctncgttca ctctgggtca gatcaagaag gccatcccgc 300
 cacactgctt cgagcgctcg gtgctcaagt c 331

<210> 16353
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-B12

 <400> 16353

 ctccggtcgg tcatecactc atcctcatcc cctggcccct gcccatccga tccgatcggc 60
 catcccctac ccctacctga tcggatcccc tgctcttccg ccgagcacca ccaggcagca 120
 ggctgcagcc gtcgagcacc agcaggagca cggccaggag gacgacgcc gcatectgcc 180
 tcttctctgc tgctggagct tctgtgccca ggagcacggc cagaaggacg acgcccctgc 240
 tgctgccggt tgctcttcta tggagacttc caaagaacag gcttccaagg actatgctgg 300
 tttcgagaag aaagttaaga ggacaatata tattgaccac ctttctcctc aagtaaagga 360
 atcggccatc aaagctgctc ttgcacaatg tgcaaatggt gtccatgtgg agttcatcgt 420
 caattacacg atcccctata aaga 444

<210> 16354
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3060-002-Q1-K2-B2

<400> 16354

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gcttcgtcct ggcggttctg gccgtgctgt ccccgctgta catcgaccgg cggcccgtgg 120
cggagcgaga ggaggaggac gaggacgacg gcggcgggccc gtcggcgctg tggctgccgg 180
cgggtgctcct cgcgctcatc ctgccatca acgttaactg cttcatggac cggcgcggtg 240
tcaggttcga cccttactgg atccaccgcy tgtgggggtc ctccggcggc ctccctcgcca 300
tgctgctgct cctcggtctc gtgctcaggt gcaaggcgtn cctgctgtat accagctact 360
aggtggtagc tcgggcggtc gtcgtcatgg gtcttttttt 400

<210> 16355

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B3

<400> 16355

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ccaatcttcc aatccccctc ggctgccact tgttctagta tctagttagt tgtgaacttt 120
aaaataggtt aaataaatac atgggagtc cagaagattc taggccttct ggcgccctgg 180
gtggcctata cagggtacag cttgtgggcc ggtcaatata cagtgatgac gaagcattca 240
agactcgcat tatggattct tcaacttggt aaccacatga ggataatggc tccagccggc 300
gtttgctaata ctggagatca tggcagcata gacccccatg cttgaagccc atacactgta 360
gcctctcatg cgactaacat gttggtgaaa ctatt 395

<210> 16356

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B5

<400> 16356

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gggccgctca aggaagggtc cattcgagtt cgatgagatc gacgagttcc ttgaccgggt 120
 ctacatgtca aggattggca tccgcatgct gatagggcag catgtgggctt tgcatgaccc 180
 taaaccggag cctgggtgtca taggcctcat caatacaaga ttatccccaa tccaggtggc 240
 tcaagctgcc tgtgaagatg ctcgttctgt ctgtttaagg gaatatggat cagctcctga 300
 tattaacatt tatggcgatc caaattttac atttccatac gtcacattac acctacacct 360
 gatgttatTT gaattgggtga agaactcttt ccgcgcgggtg caagaacggt atatgaactc 420
 tgataaagat gttccccccag tt 442

<210> 16357
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B6

<400> 16357

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 aattaggtct atatcatatc taaatagaag ggaaatcaaa aagaaggga gtggggatta 180
 cattggatga atccttaagg aagacatatc acaaaagaaa taaaggctaa agtaagcgct 240
 ccttgccctt ggtttgagca aaacagattc ttgtttcacc gaggaaaaga gagaagttct 300
 ggataaattg acaatgtcaa cttgaattga ctaattcagt tccgcctatt ccacattaat 360
 gggagtccat taatgtttct gctttacgaa tatgatattt tttggacatt tctaataata 420
 gcagg 425

<210> 16358
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-B7

<400> 16358

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 ccatggcatg cgtcagcacc ttccagagct gccccaattgc cagaagagca aagatcaaca 120

ccagggtccag gggcagcagc agtagcgtgg cgaaggggtc accaccacca gccttccagt 180
tccagtgcag ggcgtcgact ttcgcggcgg acaccagcct ccggctcgag ctggacgaga 240
accccgaggc gatcatctcg ggggcgtggc ccgggaactg ctccctcctc agctacgacg 300
acctccgcgc ctacctcgag tcgcaggaga cggcggccca ggcagacgat cagcgcggcg 360
tggcgctcct gaccgagacc atgtccacac ccgtgctggg gccaca 407

<210> 16359
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C1

<400> 16359

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ccaatcttcc aatccccctc ggctgccact tgttctagta tctagttagt tgtgaacttt 120
aaaataggtt aaataaatac atgggagtcc aagaagattc taggccttct ggggccctgg 180
gtggcctata cagggtagag tttgtgggcc ggtcaatata cagtgatgac gaagcagtca 240
agactagcat tatggattct tcaacttggt aaccacaaga ggataatggc tccggccggc 300
gtttgctaatt ctggagatta tggcagcaaa gacccccatg cttgaagccc atacactgta 360
gcctctcatg cgaataacat gttggtgaaa ctattgcaaa tg 402

<210> 16360
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C10

<400> 16360

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gcagcccggg ttgccgacca ggttccaccg ttccagagta gccaaagcga tcccgtgtct 120
ggttcgcgcg atggcggagg agcagtccaa cccccagcac cagcaagcgg aggagagggg 180
ggttatgggt gagcagcagc agccgaggag ggccccgaag ctgagggtacc tggacttcgt 240
ccagggtggcg gctgccagc cgcggtgtg cctcgctggg ctctacggcc tcgccaagga 300

ccacgccggc ccgcttccgc ccacgcgttg acgccgtcga gtctgccgtg aagggcgctg 360
ttagccccgt ctacgacc 378

<210> 16361
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C12

<400> 16361

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tatatttgat catctagagg agcttcgtga caggattttc atctcagttt tggctgttgg 120
ggctgcgata ttaggctggt ttgctttttc aaaagatttg gttatttttc ttgaggcacc 180
agtgactgct caggggtgttc ggtttttgca gctctgcct ggggaatttt tctttacaac 240
attaaagggt tcagggttatt gtggcctttt acttgggaagt cctatcattt tgtatgagat 300
cattgcattt gttatcccag gtttaacaag ggacgagcgg aaatttcttg ggcccaatgg 360
ggtggggtcc tctggtctat tctatctagg cattt 395

<210> 16362
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C2

<400> 16362

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa caaaaaaaaaa aaaaaaaaaa aaagtgtgtaag ccattttaaag 180
ctcaaaatta aactacaggg tgctaacaaa gcaaaacttt taaaaataca caactaaaaa 240
agaatccatt aaatgcatta taaaatatct aacctg 276

<210> 16363
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-C4

<400> 16363

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tcgctcaact tgtactacag aggcgaagct tgagggctta cgcatagaaca tgtcaaaggt 120
cgcttcagag tatcaaagct gacagggata agttgcacta ttagcgttgt acccgtagag 180
catacgatca ctaatatcga acttggcatt gtccgtaata tactacgctg aagctcgata 240
ggagagtcta ccaggagtac cat 263

<210> 16364

<211> 327

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-002-Q1-K2-A6

<400> 16364

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ctctagtctc cagctctagc tagccttagc ctcgtecaag ggacgaaggg gccaccatga 120
gcgtggtgat cctggacggc tccacggtgc gcggttcgt ggaggacgag gcggccttcg 180
cgcgagcct ggacgcgcgc ttcgccgcgc tggacgcaa cggcgacggc gtgctgtccc 240
gcgccgagct ccggcgcgcg ctcgagtcct tccgcctcct cgacggcggc ggcttcgggt 300
ccgnccagcc ggcgccggtt cccggcc 327

<210> 16365

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H11

<400> 16365

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tgatctaccg tcatcattga ctgcgtgga tccacacca aagactacca gaacagcacg 120
aaactgaaaa ggactaaagc ttttaagtat actcaaccaa ttacaccagc actaatgaaa 180
caaatgcctg atgatttct 199

<210> 16366
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H12

<400> 16366

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ttgtgccgaa gagggccccc tttgacctct ttgacaccag gaagaagccg aacaacatca   120
agctctatgt gcgccgtgtc ttcacatcatg acaactgtga ggagctgac ccagagtggc   180
tgagctttgt caagggcatt gttgactctg aggaccttcc cctcaacatc tcccgtaga   240
ccctccagca gaacaagatc ctcaaggcca tccggaagaa cctggggaag aagtgcattg   300
agctgttctt tgagattgct gagaacaagg aggactacaa caagttctac ggtccttct   360
cgaagaacct gaagcttggc atccatgagg actccacgaa caggaacaag attgcggagc   420
tgctg                                           425
  
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<210> 16367
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H2

<400> 16367

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actgtttaat ggatctgaca ggcttagtta ttctgagatt gtaacacaat taaacctgtc   180
agatgatgat gtagtgcgtt tgctccattc tctttcttgt gcgaagtaca agatccttaa   240
caaggaaccg gctagtagat ccctctctcc caatgatggt tttgagttca attcaaagtt   300
tactgacaga atgagaagaa tcaaggttcc actccctcct gttgatgaga agaaaaa    357
  
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<210> 16368
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H4

<400> 16368

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catgtgacag ctgatagtaa tgtcacggag aagcaaataa gtgatctttc tgctaattggg 180
actgccattg aaagtaatga taatacccag ccacctgtgc aagtgcccaa agaggatcca 240
aagaaggccc tacttgttgc tctctcccct ccaactcaga tggatgttac taagaaatct 300
tatgcatcca ttgtcaaggt catgaaggag ggcccacc 338

<210> 16369

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H5

<400> 16369

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ccttgggcac tctagccgcc tcggccgcac cgcgtcgccc acgaggcgca gcctcaaggc 180
ggaggccaag ggcgagtggc tccccggcct tccctcccc tctacctcg acggcagcct 240
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gttcgtgcag gcgagctgg tgaacggccg gtgggccatg cttggcgtgg ccgggatgct 360
catcccggag gtgctgacca aagccgggct gatcaacgcg ccgcagtggg acgacgcccc 420
caagtccgag tacttcgcgt cgtcg 445

<210> 16370

<211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H6

<400> 16370

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gacaggatat gaagcgaagt ttgtttg

87

<210> 16371

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H7

<400> 16371

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ctacatctaa acaccaacta ctaccatcat ccactataac tttctatacg aaataaattt 120

aatcacttcc tcctttacaa cgcaaactat aaaaccctac taaccaact t 171

<210> 16372

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H8

<400> 16372

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atgtgacagc tgatagtaat gtcacggaga agcaaataag tgatctttct gctaatggga 180

ctgccattga aagtaatgat aatacccagc cacctgtgca agtgcccaa gaggatccaa 240

agaaggccct acttgttgct cctaccctc caactcagat ggatgttact aagagaactt 300

atgcatccat tgtca 315

<210> 16373

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H9

<400> 16373

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cttctcatg ttcttcgtgc ccaacggggg cgtcagcttc tatgaatcta tatccacgtt 120

tggctctggg ctgttctctc tcgttcaggt tgttctgctg ttggattttg tgcacggatg 180
 gaatgagaac tgggtcgcca aggatgagca gttctgggtac atggctctgt tggttgtctc 240
 ggttgtctgt tacattgccca cgttctgttt ctcggtctc ctatttcact ggttcactcc 300
 atctggacat gactgcgga ctaacctgtt tttcattgtc ttcacgttga ttcttgtttt 360
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<210> 16374
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-002-Q1-K2-A1

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 atagtctatc gcgtgcacgc atctgggccg ctcgaccctc ggcggcgggc ggcggcgacgg 120
 cgacgacgac gatggggctg gagatggagg cgatggcggg gtcgatcggc gtgtcgggtgc 180
 ccgtgctccg gttctctgctc tggttcgcg ccaccatccc gacgggcctc ctgtggcgcg 240
 cggtgcccgg cgccatgggg cgccacctct acgcggggct cactgggtgcc acgctctcct 300
 acctctcctt cggggccacc tncaacctnc tcttcgtcgt gcccatgacg ctcggttacc 360
 ttggcatgct cct 373

<210> 16375
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A11

<400> 16375
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 gatgcgtgca aactttttga gccatctac gatgagactg atggggctga tgggtatgtc 120
 tccgtagagg tgtctcttag gttggcaa atgacactcaag gaactgttga agcggcaaag 180
 tggttacaca aagtgggtcaa ccgcccgaat gtctacataa agatcccagc tactgcagaa 240

tgtgttcctt ccateccagga agttatcgct aatggcatta gcgtaacgt cacgcttatt 300
 ttctcaattg caagatatga ggctgtgatt gatgcttacc tcgatgggct agaggcttct 360
 ggcttgagtg acttatcccg agttactagc gttgcatact tctttgtcag ccgagtggac 420
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<210> 16376

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A12

<400> 16376

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 aatatacatg gtgcttgagt acgtcaatgg aggagagctg tttgacaaga tcgcgttgaa 120
 gggtaagctg acggagaagg aaggaggaggaa actgttccag cagctcatag atgccgtggg 180
 atactgccac gagaagggggg tttatcacag ggacctcaag ccagagaatg tccttggtga 240
 tgcaaaagga aacataaaag tttctgattt cggattaagt gcccttccac agaaccaaca 300
 aaaagatggt ttgttgcata ccacatgtgg cagccctaac tacatagccc ctgaggctct 360
 tctgaacaaa g 371

<210> 16377

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-002-Q1-K2-A3

<400> 16377

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 tagggttttg tggagggcga tggcggcggc tgatgtggag taccgttgct tcctcggcgg 120
 gcttgccctgg gccaccagca acgagtcgct ggagaatgcc ttgccttctc acggcgagat 180
 cctcgactcc aaggatcatca ccgaccggga gacgggaggt ctgcgggctt cggtctcggt 240
 accttctcct ccgagaactc catgctcgac gctatcgaga acatgaacgg caaggagctc 300
 gacggccgta acatcacctg taaccaggcc caatcccgtg gcggtggcgg tggccggcgg 360

ggctacggcg gcngtcgchg cg

382

<210> 16378

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A4

<400> 16378

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acatttactg cggtttctcaa aagatgtgac agaagcgcta ttggtgacag taagcctgtt 120

atgttgcac ctttccatc cagtttcaaa ggtttatctg cactattggg tgatagaaga 180

ccagtaagag ctactgtaac taagtatcac ttgcaaaggc tgggaattgc ctgtgatgtt 240

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a 301

<210> 16379

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-A5

<400> 16379

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taatcggggg gactggaaat ctgcttcttc aaggagcaa aggctggact gtggtgacag 120

aagggattct acaagagtga aaccaacaga tcatgatggg agcaatgggg gatcgggaag 180

gtctttcagg catggtcggt caatgtctcc agaagagcac aggcacggg gcaggcatga 240

atctcatcca tcatcgagag tgtccagaag tgcagcacat atcgaggata ttaacttcga 300

gaggaggtga agcatccccg gaatggagat cctgatgctt tggcaacaat gaacggcact 360

gcagaagctc ttgaagcaaa ggaaaagcaa aggccatcgt ttgaa 405

<210> 16380

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F3

<400> 16380

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gccactggct gcgcacgcac tgctgctgg agccctacat catcgccgcc aaccggcagc 120
tgagccggct gcacccggtg taccgcctgc tgcacccgca cttccgctac accatggaga 180
tcaacgcgct ggccagggag gcgctcatca acgccgacgg catcatcgag gagtccttct 240
ggccgggcaa gtacgccgtc gagcttagct ccgtggcgta cggcgcgacg tggcagttcg 300
acacggaggc gctgcccac gacctcgtca aacgcgggct ggccgtgcgc ggtgaggacc 360
gggagctgga acttaccat aaagactacc cct 393

<210> 16381

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F6

<400> 16381

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ggagactaaa aggatacatc agtctggaga tttttctgac atagcaggat ttaatatgag 120
gctgcaattt attgcagatg tgtgcatttt ccacagtatt gccgaggatc aagttatatt 180
ccctgcagtg gatggtgaat tgtcctttgt gcaggagcat gctgaagaag aacggcgatt 240
gaataaattt aggagtttaa ttgaacaaat tcaactagca ggagccaagt caactgtagt, 300
tgattttcat tcagagttat gtcacaagc tgatcaaata atgcagaaaa ttgagagtca 360
cttcaatgat gaggaatta 379

<210> 16382

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F7

<400> 16382

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gccactggct ggcacgcac tgctgctgg agcctacat catcgccgc aaccggcagc 120
 tgagccggct gcacccggtg taccgcctgc tgcacccgca cttccgctac accatggaga 180
 tcaacgcgct ggccagggag gcgctcatca acgccgacgg catcatcgag gagtccttct 240
 ggccgggcaa gtacgccgtc gagcttagct ccgtggcgta cggcgcgacg tggcagttcg 300
 acacggaggc gctgccaac gacc 324

<210> 16383
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-F9

<400> 16383
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 gcaccggtgc atatatgggg ctctgaacc agctgtggga cgacacggtg gccgggccgc 180
 gcccggaetc cggcctcggc aagctccgca agtacgctc cttctcccc tcgtcgtcgt 240
 cgtcggcggc ggtggcggcg gcggcggcgg cgggctccgc gccgnctccg ggcgccgtga 300
 cgcgagactt gaccatgctg cggcggccgg cggcgctgtc cgtcgtcacg tcgccccgca 360
 gcgagtcag ctccgcgccg tcgtccccgt cggcgcaag cggcgc 406

<210> 16384
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G12

<400> 16384
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 ccgccccaat gctactctc ccgcggcgcg gcagatggag gtggtggaag gggcggtggc 180
 agtggcggtg gcgggaggtt ccacccttac cgtggttctt ccgactattc tagcggcggt 240

ggaggggtaca gaggcggttag tggcgttggg aacgacttcg gcgaccagaa gcaacgttac 300
ggcggcggca acagaggcgg aggccgtggg gatttt 335

<210> 16385
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G3

<400> 16385

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ggggaagaag ccttaaccgg aagaaagtga agagagaata gcttccgatc ttgattaccc 120
cgggtctccgt atcgggaatc caattcgggtt ccatccaacg cctgagatcg gattccaacc 180
cccatttcgg accgatcgct ttccgcagac cgatcggctt tgggggattt tttttcccga 240
gcgatttttc tggaggctca gatcgggtcg gtctgagttt agttgatcgc ggagcgatgc 300
taatcgagga gtttccgggc gatccgggtg gagga 335

<210> 16386
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G4

<400> 16386

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gttcgcgtca gctcctgcc tattcgctc cgtcttcgag cgttctctgc ggagcgcggg 120
tccgggcatt ctttctgag acttcgggag ggcccgcga ggctcgcgtt gcgccgtgca 180
gtgtgaggtc gacttcttct tcgcaccgtc cgcgggtgga cccagggccc gacggtgggc 240
ccagaggacc gtggtcattc cggcacagcg ccgcggtgac cacctcatca ccaacaagat 300
cgtaaataag atagggaatg acctggccga cttc 334

<210> 16387
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-G8

<400> 16387

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atgactgcat cagataatat taggacgcct gttatgaagt gtcctttgct cgaacatatt 120
tctgaggatg atgctaaaat ggtgggttgca aagcttagga gggttcgtgt ggctgatgta 180
gtggagaaaa ttgaagtctg cacagttcct ttttacaact ctaatgggag tgtttcaacc 240
ctgtacaagt tacagatgaa actctatcca caagaccagc ttgagtcagg tcttactata 300
gatgagtgtc aggcaacctt gagaacagtt tttgttgagg caatggaaca tgcaattgaa 360
aagcatctag atctgctata caaaataaat gaaatccgtg ctngtaagat ggaagattca 420
gagggctcat tattaaatgg tgatgaagaa tc 452

<210> 16388
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G9

<400> 16388

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cgtcggcggc gtacccttct cgtcctgcat cggcgacctc ctccgcttcg tcctctcttc 120
ccacgccgcc gcctaccccg gtgacgacac ggtcgttttc cccctctcgc cctcctactg 180
cgcccgctc ctcaacgacg gcgaactgtt cgagaagctg gaggcctgta ttcagcagtg 240
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ggggccggag gagagagggg ggaagctgct gctgccggag aaaggcgctg agttgaagcg 360
gatgtacgat gctgttgagt ttgagctgca tgttcaggaa ccctacttca ctcaactcag 420
agccggagtc aagaaggttg aaggga 446

<210> 16389
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H1

<400> 16389

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taaacctatt gaacttattg ttacaacata tcaggctgca ttgctactac tgtttaatgg 120

atctgacagg cttagttatt ctgagattgt aacacaatta aacctgtcag atgatgatgt 180

agtgcgtttg ctccattctc tttcttgtgc gaagtacaag atccttaaca aggaaccggc 240

tagtagatcc atctctccca atgatgtttt tgagttcaat tcaaagttta ctgacagaat 300

gagaagaatc aaggttccac tccctcctgt tgatgagaag aaaaaggttg ttg 353

<210> 16390

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-F12

<400> 16390

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ataaacaacc ggcgctgtta cagcncgcc aagaacagga gcaataacaa caaggctcct 120

cgcaacaatc cattctcatc catggcgaag ctcatgaaca agctggtcga ttcgttcgag 180

cacgacgaga taccggacgt cggctgcgtg cgcgccgtgc tggccgagct cgtctcacc 240

ttcctcttcg tcttcaccgg cgtctccgcc gccatggccg ccggatccga cgggaagccc 300

ggcgacgcta tgccgatggc gacgctggcg gcggtggcaa tcgcgcacgc gctggccgct 360

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gtggggctca tg 432

<210> 16391

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D2

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cacttcttgt cgtgctgcag caggatgctc gggctcaagt atgagtcgca gaggggctac 120
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ttcaaaggaa ttagcttgaa gcttttggcg tttgagca 338

<210> 16392
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D3

<400> 16392

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caatcttggt agtgaagcag ttagtaaaga taccctcagt gtgatcttta gaagccttca 180
tgaagagagg acattgcagc tgaagtcttt gcataataac tttggctgtc ttcaaacagc 240
aggcggtagg ctttatcagg agatcaagat gatgaacaag aggcttggag acatagaaat 300
ggagaacaag t 311

<210> 16393
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D4

<400> 16393

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cagcaccttg tcaaatgatg aactctcaga agctgcagct gcccgttcag gatctgatga 180
gtctgagagg gagatcattc atcatcagca aggtgatgat gcaccagtgc actgcagctg 240
cttcgtcgtc gtcttcacct gctcctgctg ctagaggcct gcaggttgct gcccatccca 300
gtcccagcag gaggcggcgt cctcgt 326

<210> 16394
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D5

<400> 16394

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gcgagctttg gaaagcgcca gctagtttat ccggccgggc gtggtcaccg aggcagtagc  180
ggcgagagag gggaggatct gatcgatgtc gtcgggagag gacgggtact gcagctcgga  240
ttcgccgcgg gcggaatccc ccgaccagcc gcaggcagct gcggcgggcg acgcggacgc  300
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<210> 16395
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D8

<400> 16395

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agcttcgtgc gcaccacgga tccgaacgac gtcattgtca acttcttcat ccacgagacg  180
gagggcatgt cgcaggcgtc ggcgggtggtc atcaacacct tcgacgagct cgacgcgacg  240
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acggtgcgga acaacgtgca ggcgaacagt cctgtcgctg ctatggggtc caacctgtgg  360
aagg                                              364
  
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<210> 16396
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D9

<400> 16396

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ggtatacaag gcagatacaa ggggaggatt ggatcttggt cgacatgcct ttgatgggaa 180

attccctgca caggttaaatt ttagtggtga caaggattgt ctccctattc ctgagagtag 240

tttcaagcat gccattaagg agaactacag ctcaaaaggc aggttcaccc aagagctgaa 300

ctctaaacaa gttcaaagac tattggcaat gttcaagcct atcgaccttc ctcaatcagc 360

tccacaacat atcgaggaag tgcgacaatc acatatcatt gaagatatta gaaacccgag 420

tgactatgaa gatagaagac gattg 445

<210> 16397

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E10

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ggcgccgtca cggcgcgggc gaccccgagc accagcacca gcaccaccac agccggcggc 180

ggcttcatca ggtcgtggtg tgcggggacg gactacccgg ccctgtgcaa cgcgacgctg 240

gccccgtacg cggcggagggt cggggccagc cccgcgcgcc tgtcgctggc ggcgctgacg 300

gtcacgctgg acggcgcgcg gagggcgacg gccgcgatga aggcgatggc ggcgggcggc 360

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<210> 16398

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E11

<400> 16398

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tctgccgcca tcaccgcccc ttctttcacg gccgcgcccc ctgcgcagct ggtcagcagg 120
 aggtccttca ccgtgcgtgc ctctctccgc aaggccactg ccaccgccgc cgtggccggt 180
 gccgccagcg tcctgcttgc cggcgggcggc gccatggccc aggaggtgct gctggggcgca 240
 ggcgacggcg ggctcgtctt cgagcccagc cagttcaccg tcaaggccgg cgacaccatc 300
 accttcaaga acaacgcggg cttcccgcac aacgtcgtgt tcgacgaaga cgaggtgccg 360
 agcggcgctc acgcctccaa gatctcgagc gaggagtacc tcaacgcgcc aggcgag 417

<210> 16399
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-E3

<400> 16399
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 tcgccctcgc ggccaccgcc gccgcggcca actccggctt cggggactcc aaccgatcc 120
 gccctgtcac cgaccgcgcg gcctccgcgc tcgagtcac ggtcttcgcc gcgctcggcc 180
 gcaccgcga cgcgcttcgc ttgcacgct tcgccgtcag gtacggcaag agctacgaga 240
 gcgcggcgga ggtccataag cggttcagga tcttctncga gagcctncag ctggtccgct 300
 ccaccaaccg canaggcctc tcctaccggc tcggcatcaa ccgcttcgcg gacatgagct 360
 gggagggagt ccgtgcgacc cggctcggcg cagcccagaa ctgctccgnc acgcttaccg 420
 ggcaccaccg gatgcgcgcc gcc 443

<210> 16400
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E4

<400> 16400
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 aggttgggga gcatcggatc atgtccagcg cggagttgaa cgtgtctgcc ggctccggcc 180

gcagcatcat ggggcagatc atcacactac ttctgtgcaa accgcgaaca cgaggttagca 240
gacggagagg tcagcgatga acaggaaggc caggagcggc tgcagcgcca gctgagcctc 300
taccatgtac cagat 315

<210> 16401
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E5

<400> 16401

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aatcaagaag acagaacgtg ctcttaaagt cgctgaggag gaattgatga ggttgacagt 120
agaagcaact gctaaatcaa aacagctgac tgagggttcat ggagcatggg taccaccttg 180
gttagcgaca cactatgctc gttacatgga ggttgtctca ggtcactgga attatcatgg 240
aaaacctgct gtgcagaatg ttttgcataa ggcatcagaa aaatcagcac atgcaaagaa 300
atgggctgaa ccacatattg agactgctaa gatgaaatgg attcctgtta aggagaaatt 360
ggttgtcctc aagaaaaata cagaacctta tgtacagaag gtatcgacaa gatcagtgga 420
gttttatgag tcatccaagg atgctgtgac acct 454

<210> 16402
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E6

<400> 16402

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ggcggtaggc ttctgcctcc cccgtctcga tacctctcat tcggcgaaga ctgcgaggga 120
gtccccact tcatcacctc cgtttcctac cggaaaaggc aacttctgtc ggccatctca 180
gtactttttt tggaagatgg atccagaaga ctctagttag tttgaagagg acgacgacga 240
agaagaagat gatgacttaa tgctattcat attgccagcg ctatatctag catctactgg 300
aattggaact ctggatcaaa catctatggg tagtgatggg actgcgattg aaactccaag 360

tc

362

<210> 16403
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-E8

<400> 16403

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ctgctcggcc tgccttccca tggccgcgcc caactccgtg cgctcgcggg atcccttgc 120
cggcttcgac tgcggttccc cgtgctcgcg ttatctccct cctctctgcc gcagctcgc 180
gagtcctctt gtttctctcc atggcgcggg gttccctgca ggctgctcgc ggcacccatc 240
tcctctgctc gaccgcgagc tcgctccctg gtcctgcgc tccctcgctt aatcgtggtc 300
gcgcgcgcgt gtgccttctc ttggtggtgc tcgaccccg cctcaggcag ccacgtccgt 360
ggctcgcggg catgct 376

<210> 16404
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-F10

<400> 16404

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ggaggctggg tgccaggccc ccgagggacc catcctctgc atcaataact gtggcttctt 180
cggcagcgcg gcgaccatga acatgtgctc caagtgcac aaggagatga taacgaagca 240
ggatcaggcc aagctggctg cctcctctat cgacagcatc gtgaacggca gcgacgccgt 300
catggagccg gttgttgctg gcagcaacac ggtagtagct gttgcccaag ttgagttgca 360
aacaatgaac gtgcagcagc ccgctgatgt tgccggaccc agcgaggggg tggcggcgat 420

c

421

<210> 16405
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-D12

 <400> 16405

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 tcgagcccca agctgccgaa cgggcggcgg ctgcnggtgg ctgtggtggg aggcggcccc 120
 gccggtggcg ccgcggcgga ggcgctggcc aagggcggcg tggagacggt gctaatacgag 180
 cggaagatgg acaactgcaa gccctgcggc ggcgccatcc cgctgtgcat ggtgtcggag 240
 ttcgacctgc cgctcgacct tgtggaccgc aaggtgagga agatgaagat gatttcgccc 300
 tccaacgtcg ccgtcgacat cggccgcacg ctgcgcggcc acgagtacat cgggatggtc 360

<210> 16406
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-B7

 <400> 16406

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 tcaagctcgg cgtcgccaac gccatccagc gccgtggcgg cagggccctcc gtcgaggacc 180
 tgctcaccga gctctctctg gacgcaagca gactccgctg cctgcacagc gtcattgcgcg 240
 cgctcgccgc gttgggcgtc ttcaaggagg ggagcgacgg cgagtacggc ctactgccc 300
 tttcctctct gctcgtggac gacgacagca gcgtccgaga ttggggccctt gctggtgtcg 360
 atggtagcga cgacgacaac aactgcagtg ctggaagaac ggcgttcaag atgacgcacg 420
 ggcaggacgt ctgggatgtc ctgc 444

<210> 16407
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B8

<400> 16407

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acgcccaccg ctactcctag cccctctcct ccctggattt cgcccagtct ccatctctct 120
ttctagccat ggacggcgac ctctcctgcc tacagcaggt cagcgcccca tctcctcaac 180
atctcggttc cctgtcccat ctctctcagc agccactctt ctcgttctcc atggcgctga 240
catgggggtc gcccctgcaa cctcgctctg ctgggtttcc tcagggcgcc gggatgctgc 300
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<210> 16408

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-B9

<400> 16408

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catcatgaac gagcccaccg ccgcgggccat cgcatacggg ctcgacaaga agtcgagcag 120
cgacggcgag aagaacgtcc tcattcttga cctcggcggc ggtacctttg acgtctcgct 180
cctcaccatc gaggagggca tctttgaggt caaggccacc gccggcgaca cccacctggg 240
aggcgaggac ttcgacaacc ggctcgtgaa ccacttcgtc caggagttca agaggaagaa 300
caagaaggac atcactggca accccagggc gctccggcga ctgaggaccg cctgcgagag 360
ggctaagagg acgctctnct ncaccgncca aaccaccatc gagatcgact cgctctatga 420
gg 422

<210> 16409

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C2

<400> 16409

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gcaaccatct gattcagaag cagacatcaa tggctagcaa cggctgcaac ggcaacggca 120
acggcaaggc ggcgccggcg ggtgtggtgg tgccggagat caagttcacc aagctcttca 180
tcaacggcga gttcgtcgac gccgcctccg gcaagacatt cgataccagg gaccacgga 240
ccggcgacgt gctggcccac gtagcagagg cagacaaagc tgatgtggac ctggcggtga 300
agtccgcccg ggacgccttc gagcacggca agtggccccg catgtcaggc tacgagcgcg 360
ggcggatcat g 371

<210> 16410
<211> 365
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-C4

<400> 16410
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gaggaggcgc tgggtgcgctg caccaccaca cgcgctcacc cgaggacgtc ttccgcgatt 120
tccgcgcgcg ccgagccggc atcgtcaagg cgctcaccac ggatgtggag aagttctatc 180
agcagtgcga tccagagaaa gagaacttgt gcctttatgg tttgccaaat gagacttggg 240
aggtcactct tccagctgag gaagtacctc ctgagcttcc agaaccagca ctggggataa 300
actntgcccc tgatggaatg gtcgaaaaag actggttgtc tctagtttgc agtcatagtg 360
atgca 365

<210> 16411
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-001-Q1-K2-C5

<400> 16411
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acacgcacat cttcctccgt gtgacgcggt cgaggtagcc gagggcgctc cgcgcgcccg 120
ggaaccagct gtggatggtg gaggagacgt tgacgatgcg gccctggacg cccgtggccc 180

gcgccgtgtc cgccatcttg tccagcagca gcctggtag caggaagtgg cccaggtagt 240
 tgggtggcgaa ggtcatctcc acgccgtcct ccgacacggc gaaacggtcg gcgtacttgc 300
 cggcgttggt gctgcacgta cgtacgcacg cacgtgaacc atgtgtcagt ccatgtaagt 360
 tagccgcagt tgttgctgct gctgccttgg caggtggact gctcactgat ggatg 415

<210> 16412
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C6

<400> 16412

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 aactcaaaa atcactcctc attacactac aacatctcca tcttcaccga aaccgcatgg 120
 aaccactctt ggatattgta gtacacgata tcaattctac caatctactt ctcaacaca 179

<210> 16413
 <211> 323
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-C7

<400> 16413

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 ctaccgcatc gccgtctcca cccgacctct caaggctctgg agcagatcag acgacgacgt 120
 ccattcccaa gaccaccaca gcgtcgtccg ccagggtgctc cgggacgtct cctgccgcgc 180
 gcgccccggc gagctgctcg ccacgtcgg cccagcggc gccggcaagt ccacctgct 240
 cgagatcctc gcggggcgcc tctccccgtc cccgccgcc cactgtctac gcatcgacgg 300
 cgccgncgnc cacagcgccg acc 323

<210> 16414
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C8

<400> 16414

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ttcgtgggtg ggcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120

ggcctcgctt gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180

gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240

gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300

ctggacggcc gcaacatcac cgtcaacgag 330

<210> 16415

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-D1

<400> 16415

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ggcctcgctt gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180

gtcctcgagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240

gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300

ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcgcccg tggaggcggc 360

ggcggcggtt accgtggtgg ccgtggaggc ngcggctacc gcggtggcgg gcgccgtgat 420

ggcg 424

<210> 16416

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-D10

<400> 16416

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 ccgctcccac ctggatcctg atccggggaa gtcaaagggg agatcgaagc ttgaacagag 180
 ggagccaaaa tggatgaagga cacgcggtac tacgacgtgc tgggcgtgga cccgtccgcc 240
 accgagtcgc agatcaagaa ggcgtactac gtcaaggcga ggctgggtcca ccccgataag 300
 aaccggaatg atccgcaggc cgccggagaag ttccaggaac taggagaagc ataccaagtt 360
 ctactgacc ctacacagcg ccaagcttat gactcacatg ggaaagacgg catctcaacg 420
 gagg 424

<210> 16417
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-D11

<400> 16417
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 aatagtagac ggcgctcgct cctcctcga gagcgtgtat ggcgagctgc agctcggtaa 120
 ggcagatggt gctgactcgt ctgtccagcg tttcttgctc gtcaacagcg cagcagttgc 180
 atgcgccgtc ggcaagttcg ccgccgccgc atgctggagc tggaagaaga agcgcgagga 240
 gctcccttgc ttcagggcca gactggccgc caagccgacg cgcgcctcac cggcgaaggg 300
 cggcattggt ccggccagcg acgatgacga cggcgtagc ctgggcaccg tgaagctgcc 360
 gggcaacatc gacaccgctc gggtggagtc cttgctcttn cagtggggga aca 413

<210> 16418
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-B3

<400> 16418
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ccgaaataga aactatcttct cgagtgaac accgtaatct tgtgaagttg tatggttgct 180
gtcttgaagg aaataaacca ctgttagttt atgagtacct agagaatgga agccttgata 240
aagcattggt tggaaacggg aaactgaacc tagactggcc aacacgcttt gagatatgct 300
taggcattgc aagaggcctc gcttatctcc atgaagagtc tagcatccgt gttgtgcata 360
gggacataaa ggctagcaat gtcttgcttg atgcanatct caaccctaag atctcggatt 420
tcgggctcgc caaactttac gatgac 446

<210> 16419
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K1-E12

<400> 16419
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cccattggtc gccgccttcc tacagcagca acaattgctg ccatacaacc agttctcttt 120
gatgaatcct gtcttgctga ggcagcaacc catcggttga ggtgccatct tttagattac 180
atatgagatg tactcgataa tgggtgcctc ataccgacgt gtgtttccta gaaataatca 240
atatattgat tgagatatat 260

<210> 16420
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K1-G12

<400> 16420
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tggaagctgt agacactggt taagcattag acatgttgat atgctgggga catggcatga 180
gtacatggct tatgatgcaa atgctactgt ctaaagtaca tcaaagttaa cttaaaataa 240
taaaacacaa acatgaactt aatacact 268

<210> 16421

<211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-A1

 <400> 16421

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 taatcgccgg gtttaggcag aaggggcggg acgcggcgag gtttaggcgg ggtttgtttt 180
 gtcccttccg tgcgattctg ctctccgcgc gggaggcaag tactgacgga agcgaaggcg 240
 aaggcggagg aggggggtccc cggcgggtgga agtggaacgc gccgatgcgc aagtttcagg 300
 actccatcaa ggccctccag gccgacatcg atcacgcaa tgcgatggcg tcggaattcc 360
 tgagggacta cgacggctcg gtcattccaga ttgcggtggc gtacagcgcc gtcg 414

<210> 16422
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-A10

 <400> 16422

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 gctcaaggac ctgcagaagg atcctccac ctcttgacgc gcaggccctg ttgccgaaga 180
 tatgttctac tggcaggcga cgattatggg gccatcagat agcccatagc ctggtggcgt 240
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 caagacgaag gtttaccatc cgaatatcaa cagcaacggg agcatctgtc ttgatatctt 360
 gaatgagcaa tggagccctg cactgaccgg tttttaaggt cctcctatca attggttccc 420
 ttctgacgga ccca 434

<210> 16423
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-A11

<400> 16423

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agccgcctga gtagcggcac cggcgcccgcg gccatccacc ggcagccggc cegtgtgtga 180
gccgtcctcg tcgtcacctg caggcggagc tcctccgga cegtccgcgc cgcagccgct 240
gccacggcgg cggcgccggc tgccgtagag ctgcagaaca aggggtaagt gtatatatag 300
tggtgtaaca aataagctgg ctgctgctct tgtagctaata tgatcgatgc tgctgtgtct 360
gctgtgtggac gcgcgtgcgt gacctccgac cgacttgcaa ctgcaaaggg tgctgtgtgc 420
gacgtgggcg gagttcgagc tcgggcg 448

<210> 16424

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-A12

<400> 16424

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gttgtgagcc attaccgacc aatgacgacc aaccgctcca tgtccatgct cttctactgc 120
actcacctga ctagcgacac catctccgac gtcattccacc ggaagccctc ccgcgctaga 180
accgtcctat ttgtcaccta cagcctaac tccttcataa acgtcctcac ctcatgctct 240
gtcactgttg agcatccatc tgccatatag ctgcacaaca acgcgtaagt atatatatat 300
tgatgtaaca gattagctta ctgctgctat cgtaactaat tgatccat 348

<210> 16425

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-A5

<400> 16425

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ccgcgccgtg tgaaaaaaat ggctgtgccg gaggtgggtg tggacggcgt cgtcttcccg 120
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 ggcctcgaga tcgaaggcaa cttcgtttaag ttcacggcca tcggcgtgta cctggaggac 240
 gcggccgtgc cggcgtctggc gaggaagtgg gccggcaaga cggccggcga gctcgcgtcc 300
 gacgccgnct tcttccgcga cgtcgtcacg ggcggtctcg agaagtctgc gccggtgacg 360
 atgatccgnc cgctcacggn cgagcagtac gccngaaaag tggcngagaa actgcgtgcg 420
 tactggaagg 430

<210> 16426
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-A6

<400> 16426
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 aagtgttggg tttaaagctg gtgttaagga ttataaattg acttactaca ccccgagta 120
 cgaaaccaag gatactgata tcttggcagc attccgagta actcctcagc tcgggggttcc 180
 gcctgaagaa gcaggagctg cagtagctgc ggaatcttct actggtacat ggacaactgt 240
 ttggactgat ggacttacca gtcttgatcg ttacaaagga cgatgctatc acatcgagcc 300
 cgttcctggg gaccagatc aatatactcg ttatgtagct tatccattag acctatttga 360
 agagggttct gttactaaca tgtttacttn cattgtgggt aacgtatttg gtttcaaagc 420
 cctacgcgct ctacgtttgg aggatctacg aattc 455

<210> 16427
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-A8

<400> 16427
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catggagatc aacgcgctgg ccagggaggg gctcatcaac gccgacggca tcatcgagga 120
gtccttctgg ccgggcaagt acgccgtcga gcttagctcc gtggcgtagc gcgcgacgtg 180
gcagttcgac acggaggcgc tgcccaacga cctcgtcaag cgcgggctgg ccgtgcgcgg 240
ggaggacggg gagctggagc tcaccatcaa ggactacccc tacgcccacg acgggctcct 300
ggtctgggac tgcataaagc agtgggcgtc cgagtacggt aacgtctact acaagtccga 360
cgag 364

<210> 16428
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B1

<400> 16428
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taaggatggg tttatcatca ggaagcctca gaaggttcac tctaggtccc gtgcaagaag 120
ggcacatgag gccaaacaga agggaaggca ctctggatac ggcaagcgca ggggtaccag 180
ggaggctagg ctccccacca agattctgtg gatgaggagg atgcgtgttc tgaggcgctt 240
gctccgcaag taccgtgagg ccaagaagat cgacaagcac atgtatcatg acatgtacat 300
gaaggtaag ggtaatatgt ttaagaacaa gaggggtgctt atggagagta tccacaagtc 360
caaggctgag aaggccagag agaagacact ttctgatcag ttgga 405

<210> 16429
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B10

<400> 16429
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ccaacccttg cgccggtagg cggtggcggt gaggatagag ggttacctga ggaggcagtg 120
atggcgcca cgattcagta caaccggagc aaccggcggt tgaagcggat cctgcaggag 180
gtcaaggaga tgcagtccaa cccctcacc gacttcatgt cctctcccct cgaggaggac 240

atcttcgagt ggcaatttgc tatecttggc ccgagagaca gcgagtttga aggtggaatt 300
 tatcatggca ggatccagct accttcggat tatccattca agccaccgtc cttcatgcta 360
 cttacgcaa gtggacgctt tgagattcag aagaagattt gcttgagcat atccaattac 420
 caccctgagc ac 432

<210> 16430
 <211> 404
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-B11

<400> 16430

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 accatgcgca agaccgtggg caagcccaag gtggcgcggt ccggcagccc ctggtacggc 180
 cccgaccgcg tcaagtacct cggccccctt tccggcgagc ccccgagcta cctcaccggc 240
 gagttccccg gcgactacgg ctgngacacc gncgggctgt ccgncgacce cgagaccttc 300
 gccagaacc gcgagctgga ggggatccac tcccgtggg ccatgctcgg cgcgctcggc 360
 tgcgtcttcc ccgagctgct ctcccgcaac ggcgtcaagt tcgg 404

<210> 16431
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B12

<400> 16431

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 gtactggacc accatcagcg cctgcctccg cgacggccac gcctgcgccg gcatgaggcg 120
 cctcgcgcgg gacccaaca ctggcatgct cgtgccggag acgcccacca tgttctacgg 180
 ccgcaacctc tccccgatcc agtctggatg ctgcaagcca ccgacgtcat gtgcgttcag 240
 ctacatgaac gagacgtact ggacacaaaa cccagcgtc ccgacggtga ccaacgacct 300
 agactgcaaa aggtggagca acgaccagca gacgctgtgc ttccagtgcg actcgtgcaa 360

ggctggcg

368

<210> 16432
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B2

<400> 16432

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atccgccatg aagggggcca aatccaagg cgccgccaag gccgatgcca agctggcggt 120
gaagagcaag ggggcggaga agcccgccaa gggcaggaaa gggaaggccg gcaaggaccc 180
caacaagcct aagagggctc ccagcgcttt ctctgtgttc atggaggaat ttcgcaagga 240
gttcaaggag aagaacccta agaacaagtc tgtcgtgctg gtggggaaag ctgctggcga 300
caggtggaaa tccctgagcg agtcggacaa ggctccctat gtagccaaag ctaacaagct 360
caagctcgag tacaac 376

<210> 16433
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K1-E10

<400> 16433

accactcgt ccgcttgggg aaggggtggt tntaggagtc atacactgca tggcagtggc 60
aatggtagca agagcagatg ttatcgagc agtcgcttgg ctaagttagt tgattatctc 120
catagcttga atgaaaacac tgatgagtta gatgtccatc tcattctttt gtcttttagac 180
aaacaaatta caccaagctt gcagcagcca cacctttgct gtcggccaac attgtctgtg 240
aagcatcttt gtgaatatgt tgctcatcag acacctttgc tgggtgaaga agttgagata 300
ttggcaatta aaggaagctg cagtacagtt tgtgacaagt catttgatga gacttcattc 360
tctgatgagc taactacgct tggatatagat cctagccaag atgaactgga aactc 415

<210> 16434

<211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K1-A10

 <400> 16434

 tccacccata cacccttct ccttcccaac ctctcaaac aaaaaccacc gaaataaaaa 60
 aacattccaa acggaccaac aaacgacccc aaactctttc atcaccttct tcaccaatct 120
 ctatcgatcc accctccttg cccatcactt ccatcccaa tttccct 167

<210> 16435
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K1-A9

 <400> 16435

 gaccactcg tccgctctgg tccgtggcca tggcgatgtc catgctctcc gctaccaccg 60
 tgccactgca gcgggggggt tgaaagtccg agttctccgg gctcaggagc tccgcgtcgc 120
 tgcccatgcg ccggaatgcc acctccgacg acttcatgtc cgcggtctcc ttcaggaccc 180
 acgcggtcgg cacgagcggc gggtcgcggc gggcgccgac ggaagcgaag ctgaangtgg 240
 ccatcaacag gttcagctcg atcgggcgca acttcctg 278

<210> 16436
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K1-B10

 <400> 16436

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 atttttctcc catgaaaaag caaacttcag ctaattatgg cctaataaag gctgtcatgc 120
 ctactgctgg ggagtatgta taccaaagat caatgagcca acctttctta tatgtcaagc 180
 ctgttgaaca tcatgcacta atactatcaa aaactcttac cattttcaaa ttaatata 238

<210> 16437
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K1-B9

<400> 16437

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cgggccgacc cactcgctccg cgagtcccag cgccatgcc a ccttagactc cggcgctcatc   60
tccggcctca acggcggtggg gttcatctac aagcccaccg gcgcgggcat cgcatacggg  120
ctcgacaaga agtcgagcag cgacggcgag aagaacgtcc tcatcttcga cctcggcggc  180
ggtacctttg acgtctcgct cctcaccatc gaggagggca tctttgaggt caagggcacc  240
gccggcgaca ccacactggg aggcgaggac ttcgacaacc ggctcgtgaa ccacttcgtc  300
caggagtcca agaggaagaa caagaaggac atcactggca accccagggc gctcggcgga  360
ctgaggaccg cctgcgaaag ggctaagagg acgctctcct ccaccgcca aaccaccatc  420
gagatcgact cgctctatga gggca                                           445
  
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<210> 16438
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K1-D11

<400> 16438

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cgggcagacc cactcgctccg ccacgcgtc cgttctgatg ttgatagctt cgtttgaagg   60
aaaggtgaga gcagaatcgt ggggagaatc tggattgtg tcctggctgt tgttttcgcg  120
atcaaaacga tgtcgtcgcc ggacattgtc tcgatattgg ataactcgaa ggagctcgat  180
cgggttagga aagaacagga ggatattctg tcggagatca acaagcttca caagaagctt  240
caagcaactc ctgaagtggg tgagaagcct ggggataact cattggcaag gctgaaattt  300
ttgtatactc aagcaaaaga actttcagaa agtgaagcaa gtatttccaa cttactgata  360
aaccaaattg atgccctact gcctacgggt ccacaagggc aaacacgaag aagaatagga  420
aaaggtaatg agcagaaaag gaaacgagt                                           449
  
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<210> 16439
 <211> 463

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-F9

 <400> 16439

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 gagaacctgt aggtgggtggc aaacctacat gggagggctgc ttggcgagct gcttttgaaa 180
 gatttcagta taaaaaatca cctcatatca gtttagagac tcccacaagt tcacttatag 240
 gtagttctgt gcctgagaaa gctagcaaag gtacagcaat tacaactgtg ccagctagca 300
 aaaaagttgg taaaactgtg ggcgcagcac atcctgctgt aaccctacac tctccaactt 360
 ctgattttcc ttttggtagt tctacattta atctgcaacg aggcactcat ctggatttta 420
 gccaggcagt atcaccattt gcgtataatt cacacatgag aca 463

<210> 16440
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-C8

 <400> 16440

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 ggcagacaac tgtatggtca gccgattaaa gtcaattggg catatacaag tactccgagg 120
 gaggacacat caggtcattt taatattttt gttggggatc tttgcccgga agtcactgat 180
 gctactttgt ttgcattttt ctctggatac tctacttgct cagatgctag ggttatgtgg 240
 gaccagaaaa caggacgac cagaggggtt ggttttgttt ctttcaggaa ccagcaggat 300
 gctcaaagtg cgataaatga cttgaatggg aagtggcttg ggaaccgtca aattcgttgc 360
 aattgggcaa cgaaaggtgc taatgctggt gaagagaaac agattctgga cactaagggt 420
 gacctgtcaa at 432

<210> 16441
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C10

<400> 16441

tgaagacgac ctgcatgccg atgagaccat aaatattttc gtaggaaaca attacaagac 60
ctacactttt ggtggaaaga agagcatagt cctgtcgact gcgctctggc taggcggcaa 120
gaacgacttc cttggacacg cttatattgt cactggttcg ttgagcatca tcatatcgat 180
tctcttttget ctgatccatg tgaagtaccc aaggccgcaa ggtgacccca attgcctatc 240
ctggaacagg aaaaacagca atagctaagg ggcccgcctg tacctaccat ctatgtgggc 300
gcctgtgtac caacatgaat cagtattaca catctgtatc tgaaacatgt cagacactgt 360
gccgcaaggt taatcccaga tgatgaaaag aaactgcgta caccatg 407

<210> 16442

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C7

<400> 16442

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gtgtagtggg aatctcagta tggttgcgct cagaaatgca tatcatggcg gaagtgccgg 120
tacgattgga ttgactggca tgcagacgtg gaaataccca attcctcagg gtgaaatata 180
tcatgtcatg aaccctgac cttatcgggg gactttcggg tctgatgctg cagcttatgc 240
taaggaagtc gaagaacaca taacttatgg aagttcagga agggttgcag gcttcattgc 300
acaaacattc caggggtgtg gaagtgtgc taaactaact cctgaatacc taaagtttagc 360
taatgacatt 370

<210> 16443

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-011-Q1-K1-C8

<400> 16443

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gagacaaggg gaaatgggga agggagcgca agggagcgat gcggcggcgg cgggcggcga 120
ggtggaggag aacatggcgg cgtggctggt tgccaagaac accctcaaga tcatgccctt 180
caagctcccg ccgctcgccc cttatgatgt ccgctgctgc atgaaggcag tggggatttg 240
cggcagcgat gtgcactacc tcaggagat gcgcatcgcg cacttcgtcg tgaaggagcc 300
gatggtgatc gggcacgagt gcgcgggctt ggtcgaggaa gtgggcggcg gcgtgacgca 360
cctgtccgtg ggcgaccgcg tggcgctgga gccgggcgtc agctgctggc gctgccgnca 420
ctgcaagggc gggcgggtaca acctgtgcga 450

<210> 16444
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A3

<400> 16444

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tgctcttcaa tgcattcgtg agaagatgga tattatagat cttgaggatg agacaataga 180
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aagcaacca tctgctctgc gtgaaactgt tgttgaagtg ccaaagtctt cttgggaaga 300
tattggtggc ctggaaaatg ttaagaggga gctacaggag actgttcaat atccagtgga 360
gcatccatag aaaaattgaa aagtttgcac g 391

<210> 16445
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F8

<400> 16445

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tgccgcgaga gctcgttctt gatggggaac tgcgccggcg tggaggggaa cgccgagatc 120

aacccttccct tcagtgtccc caattcctca gggaccgtcg gttctaagag cgtcagcaag 180
aacgcggccg acaccggcac cttcggcacc aagacgtccg gctcgtcgtc gtcgggtgccg 240
tcaacccctc gtacggagggc ggagatcctg gagtcgtcga atgtccgcaa gttcagcttc 300
ggcgagctca aaggtccac gaggaacttc aggccggaca gcctgctcgg ggagggggggc 360
ttcgggtccg tgttcaaggg gtggatggat gagcgcacgc tcgcg 405

<210> 16446
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-054-Q1-K1-H9

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ccagaatcca aacgcaacaa aaacctgtgg gtgcggcaaa tctttcgcga ctggaaagga 120
gaccgaggcc gcggcaacca cttgcaacaa ctagagtaga gaaatattgt tagctaaacg 180
tgatgtggca tgttgtatag cttgctcatg ttgaagccct gtggctacac cacagataca 240
taaagaggca tagttcaaag gaattacacc attaccaatg gcctaattca gattttcttg 300
tttggtgatc attccgaagt ccttaaactt gtggatgggt ctctcaaaat gcattgtatt 360
ttcagggtatc caaacttgtc ttgacgtgtc gtccaggcct acaagtacta aaattttatt 420
tntacatttt taaacttgg 439

<210> 16447
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G12

<400> 16447
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ttccgtccgt ccagtagcca cgacacgacg gtgacgacga cgaacgctgg cgctcctgtg 120
tggaaacgaca acgaggcgct gactgtgggg cctcgcggtc ccatcctgct ggaggactac 180
cacctgatcg agaaggtggc gcacttcgcg cgggagcgca tcccggagcg cgtggtgcac 240

gcgcgcggtg cctacgccaa gggcttcttc gagtgcaccc acgacgtgac gtcgctgacg 300
 tgccgcgact atctgcgcgc gctctgcgtg cggacgcccg tgatcgtgcg cttctcgacg 360
 gtgatccacg 370

<210> 16448
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D4

<400> 16448

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 acgctccgtc gcggttccag ggcagggccg atgccgtcaa cctcatctgc ggcgccaaga 120
 cccagtcgaa cccggagAAC acggtaggcg tgatgacaat ggccgggaag ggtgttcgcg 180
 tgcttgtcac tcccaccagc gacctcggga agattctcgc ctgtatgcac gggttagaag 240
 ttggcgctga ggcaaacttg gctgcggcaa tccaggttgc ccagcttgct ctaaagcatc 300
 ggcagaacaa gaggcagcag ccagaggatt atagctttca atggaaggtc cggtaaagtc 360
 caccaggaag gtttggagac cattgggaag aagcctgaaa aggaccatgg tgctc 415

<210> 16449
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-E7

<400> 16449

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 caagagggttg ttcaacttca agaaggatag ggatggctat tggaagtggg ttgctggcaa 120
 cctggcctct ggtggtgctg ctggtgcttc ctctttgttt tttgtgtact ccctggacta 180
 cgcgagaaca aggttggtta atgacgcgaa ggctgccaaag ggaggaggtg aaaggcagtt 240
 caatgggctt gtcgatgtct accgcaagac actcaagtct gatggtattg ctgggcttta 300
 ccgtggattt aacatctcct gtgttggaa catntgttat cgtggtctgt actttgggct 360

ctatgattcc atcaagccag ttgtccttac tggcaacctn caggacaatt tctttgccag 420
 tttcgctctg 430

<210> 16450
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-A2

<400> 16450

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 tgttgaacgc gccgatcaag gaggacgaga ccgctatagg ggtcggaaca gtgggatacct 120
 cggaagcgat catgctngca agtctaacgg tcaagaagga aatgccgaac caggaggaag 180
 gaccagggaa accgggttac aaaaccaaca ttggtaacgg tgccaacggt caagtctgggt 240
 tggaaaaggt tgcaagggat tttgaagtgg aacttaaaga aggtaagcta tcagaaggggt 300
 actacgttat ggaccccgctc aagggtggtg aaaaggtgga ccag 344

<210> 16451
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D7

<400> 16451

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 cgaactcgtg cccgctgacg ccgcttggtt tcctggagcg ctcgggccacc gtcttcggcg 120
 attgccactc cgtcgtgtac cagcacacgg tcttcacctg gtcccagaca caccggcgat 180
 gcctccgcct cgctccgctg ctgctctctc tcggcatcaa ccgcggcgac atcgtgtccg 240
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 ccgtgctcaa caacatcaac atgcgcctgg acgcgcgcac ggtcgccgct ctgctccgcc 360
 actccggctc caagctcgtc ttcgtggacc cggcgtctct aacgcttata agagacgtcg 420
 ctgagcag 428

<210> 16452
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-009-Q1-K1-E1

 <400> 16452

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 acaaaacggc caggggatat catggctttt tccttttact gatggcacat gcacctcttg 120
 gctggtcaga tactttggca tacattgtgt taccagttct tcttgtcatt ncacagtaca 180
 tatctactca agtaaggcag gcaccacaga gcaatgatcc taaccaacaa ggggctcagg 240
 ctgtgacaaa ggagttacca 260

<210> 16453
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-021-Q1-K1-H11

 <400> 16453

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 gcggatcggg gagggcgagg agtaggatgg cgagcgcggc cggaggcgga gcggcggggg 120
 aaggggagtg gcttaaggta tcccagctca ggcccatggt ggaagcgag gacccaacg 180
 ccaaggcagt ggacaacctg acgctgcgtc ggttcctgcg cgcgcgcgac cacgacgtgg 240
 acaaggcctn cgccatgttc ctcaagttcc tcaagtggcg gagggaggcg gcgcccggcg 300
 gctccgtgcc ggaggacagg taaggaggag ctggcgcagg gcaagctgtg catgggcggc 360
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<210> 16454
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-024-Q1-K1-A11

<400> 16454

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ctgaaagcac ataagcaata catggttatg ggatcgtgtt cgagtttagcg gtggtgcata 120

tggaggattt tgtgattttg acaccattc aggagtgttc tcatatttat catatcgtga 180

tccaaactta ctgaaaacac tagaggtcta tgatgagaca gcaagattcc tcagagagct 240

agaattggat gatgatgcac tcacaaaagc tattattgga accataggcg atgttgacgc 300

ctaccagcta ccagatgcta aaggttacag cagcctaata agatatttgc tgggcatcac 360

ggatgaagaa cg 372

<210> 16455

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A12

<400> 16455

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ctccggttca cctgccacct ccggtgcac tcccaccgcc ggtccacctg ccgccgccgg 180

tccacctgcc accgccggtc catgtgccgc cgccggttca tctgccgccg acaccatgcc 240

actaccctac tcaaccgccc cggcctcagc ctcatcccca gccacacca tgcccgtgcc 300

aacagccgca tccaagcccg tgccagctgc agggaaacctg ctgcgttggc agcaccgccg 360

tcctgggcca gtgcgtcgag tttctga 387

<210> 16456

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E2

<400> 16456

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accctcgcgt cttcttcgac atgaccgtcg gcggcgcccc ggccgggccgg atcgtgatgg 120

agctgtacgc caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg 180
agaagggcgt gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg 240
tcatccccga gttcatgtgc cagggcgggc acttcacccg cggcaacggc accggcgggc 300
agtccatcta cggcgagaag ttccccgacg agaagttcgt gcgc 344

<210> 16457
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-021-Q1-K1-A4

<400> 16457

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attcctctcg tggtcgttgt gtgattttga cgcgacatgc gttgcgtgca tgtatctctc 180
tgctctctcg gtgcctcggt ggtagcagcg tcggtctcca cggcgagctg cgaccgtct 240
agcggcgccg atgaggtgga gtgccgcgac gaggcggcgg cgctgaggct taagatggtg 300
ttcgtcgtgg ccatactcgt cgcagggcgc accggcgctc cgatcccgtc cgtcggccgc 360
cgctgccacg ggcattggagc ctntctntc tntctnaccg gtggggcggt cgtgctcgt 420
aaggcgttcg cggccggngt gatcctggcc acgggct 457

<210> 16458
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B10

<400> 16458

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tcaggcgggtg gtgtctttgc tcttggttc ttctccctga agaactcttc aaggttctat 120
gtcggcatat ggtacaacaa cattccccgag cgcacatacg tgtggattgc caaccgcgac 180
aacccaatta ccaccaatgt gcctgggaag ctagttttta ccaacagttc tgaccttgct 240

ttgttagact ccacaggccg caccatctgg acgacgacaa acaactatac cgcaggagga 300
 ggcggtgaaa ctgcttccat cctgctcgat tcggggaact tggttatccg gttgccaaat 360
 ggcactgaca taatgga 377

<210> 16459
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-025-Q1-K1-E10
 <400> 16459

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 gcaataccct tcctaacctc ctgcgacttt ccttgtagag taacatgttc cacggtccaa 180
 tcccagcatc gctaggaaac gcttcaatcc tcgtggtatt agacttcaca tctaacagtt 240
 tcaactggaaa tgtacctagt tccttgggaa atctaacctc cctgaacttc ctaaaactag 300
 aacagaacaa ccttgaagca aaaaacaatg aaggctggga attcatagat gcattggcca 360
 aatgtacgta tctacaatac attttattat ctgacaatc 399

<210> 16460
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-H9
 <400> 16460

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 tgggtgctcac cgagttcatc ctcaagctgg cgcggcagaa caacctgccc ccgcagccgt 180
 tcctgctggc cctcgcctcc agctccaaca tcggctctc cgccacgccc atcggaacc 240
 cgcagaacct cgtcatcgcc gtgcagagcg gcatcacctt cggccagtgc ctgctcggtg 300
 tcttcccggc catgatcgct gccgtcgccg ccaacacctg catcctgctc tgctacttct 360
 ggaggtgcct ctccgcgccg gagaaggacc aggagggcgg cgccgncgnc gcggggcccc 420

acgtcgccgt cgtggccgac gagga

445

<210> 16461

<211> 425

<212> DNA

<213> Zea mays

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<400> 16461

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gggggcggcc tgtccgagtt ctccgggctc aggagctccg cgtcgctgcc catgcgccgg 120
aatgccacct ccgacgactt catgtccgcc gtctccttca ggaccacgc ggtcggcacg 180
agcggcgggt cgccgggggc gccgacggag gcgaagctga aggtggccat caacgggttc 240
ggccgcatcg ggcgcaactt cctgcggtgc tggcacgggc gcggcgacgc ctgcgccctc 300
gacgtcatcg ccatcaacga caccggcggg gtcaagcagg cgtcccacct gctcaagtac 360
gactccacgc tcggcatctt cgacgccgac gtcaagcccg tcggcgacaa cgccatcttc 420
gtcga 425

<210> 16462

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F6

<400> 16462

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ctgtccgagt tctccgggct caggagctcc gcgtcgctgc ccatgcgccg gaatgccacc 120
tccgacgact tcatgtccgc cgtctccttc aggaccacg cggtcggcac gagcggcggg 180
tcgcggcggg cgccgacgga ggcgaagctg aaggtggcca tcaacgggtt cgccgcatc 240
gggcgcaact tctgcggtg ctggcacggg cgccggcgac cctgcgccct cgacgtcatc 300
gccatcaacg acaccggcgg tgtcaagcag gcgtcccacc tgctcaagta cgactccacg 360
ctcggcatct tcgacgccga cgtcaagccc gtcggcgaca acgccatc 408

<210> 16463
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C9

<400> 16463

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agttctccgg gctcaggagc tccgctcgc tgcccatgcg ccggaatgcc accttcgacg 120
acttcatgtc cgccgtctcc ttcaggaccc acgcggtcgg cagcagcggc gggccgcggc 180
gggcgccgac ggaggcgaag ctgaaggtgg ccatcaatgg gttcggccgc atcgggcgca 240
acttcctgcg gtgctggcac gggcgccggc acgcctcgcc cctcgacgtc atcgccatca 300
acgacaccgg aggcgtcaag caggcgtccc acctgctcaa gtacgactcc acgctcggca 360
tcttcgatgc cgacgtcaag cccgtcggcg acaacgccat c 401

<210> 16464
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B7

<400> 16464

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ttcatgtccg ccgtctcctt caggaccac gcggtcggca cgagcggcgg gtcgcggcgg 180
gcgccgacgg aggcgaagct gaaggtggcc atcaacgggt tcggccgcat cgggcgcaac 240
ttctgcggt gctggcacgg gcgcggcgac gcctcgcccc tcgacgtcat cgccatcaac 300
gacaccggcg gtgtcaagca ggcgttcac ctgctcaagt acgactccac gctcggcatc 360
ttcgacgccg acgtcaagcc cgtcggcgac aacg 394

<210> 16465
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-042-Q1-K1-A10

<400> 16465

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gggggcggcc tgtcgcgagt tctccgggct caggagctcc gcgtcgctgc ccatgcgccg 120
gaatgccacc tccgacgact tcatgtccgc cgtctccttc aggaccacg cggtcggcac 180
gagcggcggg tcgcgccggg cgccgacgga ggcgaagctg aaggtggcca tcaacggggt 240
cggccgcatac gggcgcaact tcctgcggtg ctggcacggg cgcggcgacg cctcgcccct 300
cgacgtcatc gccatcaacg acaccggcgg tgtcaagcag gcgtcccacc tgtcaagta 360
cgactncacg ctcg 374

<210> 16466

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F11

<400> 16466

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caggagctcc gcgtcgctgc ccatgcgccg gaatgccacc tccgacgact tcatgtccgc 120
cgtctccttc aggaccacg ctgtcggcac gagcggcggg ccgcgccggg cgccgacgga 180
ggcgaagctg aaggtggcca tcaatggggt cgccgcatac gggcgcaact tcctgcggtg 240
ctggcacggg cgcggcgacg cctcgcccct cgacgtcatc gacatcaacg acaccggagg 300
cgtcaagcag gcgtaccacc tgtcaagta cgactgcacg ctcggcattc tcgatgccga 360
cgtcaagccc gtcggcgaca acgcatctg cgtcgacggc aaggtcatca aggtcg 416

<210> 16467

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-E7

<400> 16467

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tcggcatggg caagattaag atcggaatca acggcttcgg aaggatcggc aggctcgtgg 120
ccagggtcgc cctccagagc gaggatgtcg agctcgtcgc cgtcaacgac cccttcatca 180
ccacggacta catgacctac atgttcaagt acgacaccgt ccacggccac tggaagcaca 240
gcgacatcac actcaaggac ctccaaaacc ttcttttcgg tgaccagccc gtcaacggct 300
ttggcatcaa gaaccctgaa gaaatcccgt ggggtgaggc ttgcccttaa tatgtcctgg 360
agtccaacgg cgttt 375

<210> 16468
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-C11

<400> 16468
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cacctccgac gacttcatgt ccgccgtctc cttcaggacc cacgcggctcg gcacgagcgg 180
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catcgggcgc aacttctcgc ggtgctggca cgggcgcggc gacgcctcgc ccctcgacgt 300
catcgccatc aacgacaccg gcggtgtcaa gcaggcgctc cacctgctca agtacgactc 360
cacgctcggc atcttcgacg ccgacgtcaa gcccgctcggc gacaacgc 408

<210> 16469
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-A12

<400> 16469
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ccctgcagag cgaggatgtc gagctcgtcg ccgtcaacga ccccttcatt accacggatt 180
acatgaccta catgttcaag tacgacaccg tgcacggcca atggaagcac agcgacatca 240

cctcaagga ctccaagacg cttctcttcg gcgagaagcc ggtcaccgtc tttggcatca 300
 ggaacccga ggagatcccc gtgggtgagg ctgggtgctga gtatgtcgtg gagtccaccg 360
 gtgtcttcac tgac 374

<210> 16470

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-C4

<400> 16470

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 ggatcggcag gctcgtggcc agggtcgccc tgcagagcga ggatgtcgag ctctcgcgcg 180
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 acggccaatg gaagcacagc gacatcacc tcaaggactc caagacgctt ctcttcggcg 300
 agaagccggt caccgtcttt ggcatcagga accccgagga gatcccgtag ggtgaggctg 360
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<210> 16471

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E9

<400> 16471

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 ccagggtcgc cctccagagc gaggatgtcg agctcgtcgc cgtcaacgac cccttcatca 180
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 ttggcatcag gaaccctga ggaaaatccc gtggggtgag gctggcgctg agtatgtcgt 360
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caagaagggtg ttatctctgc cccaa

445

<210> 16472

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C11

<400> 16472

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cggcaggctc gtggccaggg tcgccctgca gagcgaggat gtcgagctcg tcgccgtcaa 180

cgaccccttc atcaccacgg attacatgac gtacatgttc aagtacgaca ccgtgcacgg 240

ccaatggaag cacagcgaca tcgccctcaa ggactccaag acgcttctct tcggcgagaa 300

gccggtcacc gtcttttgga tcaggaaccc cgaagagatc ccgtgggggtg aggctggtgc 360

tgagtatgtc gtggagtcca accgtgtctt cactgacaag gaccaggctg ctgcaca 417

<210> 16473

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B9

<400> 16473

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cttcaaggcc gacgtcaaga tcgtggacga cactaccatc agcgtcgacg gcaagcccat 360

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<210> 16474

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-F2

<400> 16474

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gcagaggctg gacttcgccg acttctccgg gtcaggccg gggtcgtgct ccgtgagcgc 180

tgccgcgcgg gaggcgtcct tctccgacgt ccttggcgcg cagctcgteg ccaaggccac 240

cggggagaac gccgtgaggg cgcgcgcaga ggcgaagctg aaggtggcga tcaacggctt 300

cggccgcata gcccggaact tctccgggtg ctggcacggc cgcgaggact cggcgatcga 360

cgtcgtcgtc gtgaacgaca gcggaggcgt caggaacgcg 400

<210> 16475

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-D9

<400> 16475

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cacggcgtgc agaggctgga cttcgccgac ttctccgggc tcaggccggg gtcgtgctcc 180

gtgagcgtg ccgcgcggga ggcgtccttc tccgacgtcc ttggcgcgca gtcgtcgcgc 240

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<212> DNA

<213> Zea mays

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<400> 16476

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<210> 16477
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B12

<400> 16477

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 aatgccacct ccgacgactt catgtccgcc gtctccttca ggaccacgc ggtcggcacg 180
 agcggcgggt cgcggcgggc gccgacggag gcgaagctga aggtggccat caacgggttc 240
 ggccgcatcg ggcgcaactt cctgcggtgc tggcacgggc gcggcgacgc ctgcccctc 300
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<210> 16478
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-B12

<400> 16478

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 cctccgcctc ttcgagtacg ctcaggagaa gcagttcgcc attcccgcca ttaacgtcac 180
 ctcttccctc accgtcgtgg ctgccctcga ggccgctcgc gacaaaaagt cccccattgc 240

cctccaggtc tcccaggggtg gtgccgcttt cttcgccggt aaaggtgtca gcaacgatgg 300
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<210> 16479
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-F10

<400> 16479

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cgtctgcttc aggaccacg cggtcggcac gagcggcggg ccgcgccggg cgccgacgga 180
ggcgaagctg aaggtggcca tcaatgggtt cgcccgcatc gggcgcaact tcctgcggtg 240
ctggcacggg cgcggcgacg cctcgcccct cgacgtcatc gtcatcaacg acaccggagg 300
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cgtcaagccc gtcggcgaca acgcatctg cgtcgacg 398

<210> 16480
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-F1

<400> 16480

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ttttgacgac ttgatgttct acgttgca 148

<210> 16481
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F3

<400> 16481

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 tccaggccgg cgcaagaag gtgatcatca cggctccgc caagggcgcc gacatcccga 180
 cctatgtcgt cggcgtcaac gagggcgact acgaccacag cgtcgcggac atcatcagca 240
 acgcgtcctg cagcaccaac tgcctcgcgc cattcgtcaa gatcttggac gaggagtctg 300
 gaattgtcaa ggggaccatg acgacgacgc actcgtacac cggcgaccag aggctgctgg 360
 acgcgtccca ccgcgacctc cggcgggccc gcgcggcggc gctgaacatc gtgccgacga 420
 gcacgggcg 429

<210> 16482
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-A9

 <400> 16482

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 gggggcggcc tgtccgagtt ctccgggctc aggagctccg cgtcgtctgcc catgcgccgg 120
 aatgccacct ccgacgactt catgtccgcc gtctccttca ggaccacgc ggtcggcacg 180
 agcggcgggg cgcgggcgcc gccgacggag gcgaagctga aggtggccat caacgggttc 240
 ggccgcatcg ggcgcaactt cctgcggtgc tggcacgggc gcggcgacgc ctgccccctc 300
 gacgtcatcg ccatcaacga caccggcggg gtcaagcagg cgtccacact gctcaagtac 360
 gactccacgc tcggcatctt cgacgccgac gtcaagcccc tcggcgacaa cgccatctnc 420
 gtcgacggca aggtcatc 438

<210> 16483
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-F6

 <400> 16483

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cagcgggaca tggcagagcg tgggcacagc cttgaaagca tcaaggccag tatcgaggcc 120
aggaaaccag atttttagtc ctttattgat cgcgagaagc agtatgctga tgctgtgatt 180
gaagttctgc cgacccagtt gattcccgac gacaacgaag gaaagggtgct gcgtgttaag 240
ctcatcatga aagaaggggt gaagaacttc aacccggttt atctctttga cgaaggatcg 300
accatcagct ggggtgccttg tggaagaaag ctcacatgct cttaccctgg catcaaattt 360
tcctatggcc cggacactta cttcggaac gaggtatct 399

<210> 16484
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-G1

<400> 16484

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acaagtttat tgttattggt gacgagacaa aactagttga tgggttagga ggtagtggtc 120
tagccatgcc agtggaagtt gtgcagttct gctggaagta caaccttgta agattgcagg 180
aactgtttaa ggaggaagga gtcgaggcaa agctaagggt tgaaggcgac aagccctatg 240
ttactgacaa ctcaaactac atcgtcgatt tatacttcaa gacgccaatc aaggatgcgt 300
tggcagcagg acaggaaatt gcagctctgg aaggagttgt tgaccatggg ttgttcttga 360
acatggcgag ttcagtgatc attgctggaa cggacggtgt cagtgtcaaa acgaagtgag 420
tttttgagtt gc 432

<210> 16485
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-G2

<400> 16485

ggaggtggca ggatgcgact ggattcatgt cgatgtcatg gacgggcgct ttgtgcaaaa 60
catcacaatt ggacccttgg ttgttgatgc tctgcgtcca gtgactgatc ttccgttggg 120

tgtacatctg atgattgtgg aacctgagca gcgagtcccc gattttatca aggcaggtgc 180
 tgatattggt agtgtccact gtgaacagac atcgaccatc catttgcacc gaacagtcaa 240
 tcagattaaa agtctaagag caaaggcagg gaattgtttg aatccagcga cttcacttac 300
 tggaattgat tatggtcctg atgggtggtga cctgggtgctg attatgtctg tgaatcctgg 360
 gtttgggtggc caaagcttta ttgagagtca agttaaggaa att 403

<210> 16486
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-D3

<400> 16486

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 tttgtgcaa atatcacaat tggacctttg gttgttgatg ctctgcgtcc tgtgactgat 120
 cttccattgg atgtacatct gatgattgtg gaacctgagc agcgagtccc tgattttatc 180
 aaggcaggtg ctgatattgt tagtgtccac tgtgaacaaa catcgaccat ccatttgcac 240
 agaacagtca atcagattaa aagtctagga gcaaaagcag gagttgtttt gaatccagcg 300
 actccactca atgcaattga ttacattctt gatgttggtg acctgggtgtt gattatgtct 360
 gtgaatcctg ggtttggtgg ccagagcttt atcgagagtc aagnaggaa aattgcaga 419

<210> 16487
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-B5

<400> 16487

atcgcttacc gccccgaag cgtctcggtt cgcatagcag agctgctctt gcaacaagcc 60
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 gcgacgccgt cgtcgtcgtt ttgctccagc ttcgcctccc tgcggaccgc ctccatcggc 180
 ccccccggtg gcctgcctc ctccacgccc aggaaggcat tccatgtgag ggcatcagct 240
 cgggttgaca aattctcaaa gagtgacatc atcgtgtccc cttcgattct gtctgcaaac 300

tttgcgaagc ttggtgatca ggtaaaagct gtggaggtgg caggatgcga ctggattcat 360
 gtcgatgtca tggacgggcg ctttgtgcc aacatcaciaa ttggaccctt ggttgttgat 420
 gctc 424

<210> 16488
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-013-Q1-K1-A2
 <400> 16488

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 gcgcagatgg cgacgccgtc gtcgctcgtt tgctccagct tcgcctccct gcggaccgcc 120
 tccatcggcc acccccgtag catcgctcc tccacgcca ggaaggcatt ccatgtgagg 180
 gcatcagctc gggttgaaa attctcaaag agtgacatca tcgtgtcccc ttcgattctg 240
 tctgcaaact ttgcgaagct tggatgatcag gtaaaagctg tggaagtggc aggatgcgac 300
 tggattcatg tcgatgtcat ggacgggccc tttgtgcca acatcacaat tggacccttg 360
 ngttgtgatg ctctgcgtcc agtgactgat 390

<210> 16489
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-013-Q1-K1-A12
 <400> 16489

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 ctgacaactc gaccggcaac aagcctgacc tcattgtgat gggcaccggc tccgagctgg 120
 agatcgcggc caaggccgcc gacgagctga ggaaggaggg caagacggtc cgcgtcgtct 180
 cgttcgtctc ctgggaactc tttgatgagc agtcggatga gtacaaggag agcgtcctcc 240
 ctgctgccgt cacagcgagg atcagcatcg aggcggggtc cactcttggc tggcagaagt 300
 acgtcggagc ccagggcaag gccattggca tcgacaagtt cggcgcgagt gctcctgccg 360

ggacgatcta caaggagtac ggcatacccg tggagagcat cattgcagct gccaaagaagc 420
 ttt 423

<210> 16490

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-D2

<400> 16490

gatcaccacc acacctctat cctgctagct aggtagctga attcggagcc agggctcagc 60
 gaggggggtgc ggaggcgaga tggaccacgc ggcggacgcg caccggacgg acctgatgac 120
 catcacgcgg cactgtctga acgagcagag ccggaacccc gagtcccgcg gcgacttcac 180
 catccttctc tcccacatcg tcctcggctg caagtctctc gcctacgccg tcaacaaggc 240
 cgggctcgcc cagctgatcg ggctcgccgg cgagaccaac gtgcaaggag aggagcagaa 300
 gaagctggac gttctgtcca acgaggtgtt cgtcaaggcc ctgctcagca gcggctgcac 360
 ctgctctctt gtgtccgagg aggactagga agcaacgttc gtggactcta agctgcgttg 420
 aaggtactgc 430

<210> 16491

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-H11

<400> 16491

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 tgagtgagtg atcgagctag ctgagctccg atcctcgtta gctaggatac cgccatacca 120
 caagtcttct tcacaagttt aggagtgaca gcaacaagag atcgatggcc tctgccaccg 180
 tgctcaagtc ctcttcctt cccaagaagt ccgaatgggg cgccaccagg caggccgccc 240
 cgcccaggcc gccaccgctc ttcattggtcg tccgcgcctc cgctacgcc gatgagctcg 300
 tgaagaccgc gaaaacaatc gcgtcgccgg ggcggggcat cctggcgatg gacgagtcaa 360
 acgcgacttg cggaagcgg ctgacgtcca tcgggctgaa gaacacggag gccaacccga 420

aggcttaccg

430

<210> 16492

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E6

<400> 16492

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ggaagtacac agatgagctg atcaagaccg ccaagtgcct cgcaacgccg ggcaagggca 120
tcttggcctc cgacgagtcg acgggcacca tcggcaagcg cctgtccagc atcaacctcg 180
agaacgtgga gtcgaaccgg caggcgctcc gcgagctgct cttcacggcg cccggcgtgt 240
tcgactacct ctccggggtc atcctcttcg aggagacgct gtaccagaag acctccgacg 300
ggaagccgtt cgtggacgtg ctcatcgcg gcgagtggt ccctgggatc aaggtcgaca 360
agggcaccgt ggagatcgcg ggcaccgacg gcgagaccac cacgcagggc ctcgactccc 420
tgggcgcacg ctgcg 435

<210> 16493

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-F10

<400> 16493

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ggaagtacac agatgagctg atcaagaccg ccaagtgcct cgcaacgccg ggcaagggca 120
tcttggcctc cgacgagtcg acgggcacca tcggcaagcg cctgtccagc atcaacctcg 180
agaacgtgga gtcgaaccgg caggcgctcc gcgagctgct cttcacggcg cccggcgtgt 240
tcgactacct ctccggggtc atcctcttcg aggagacgct gtaccagaag acctncgacg 300
ggaagccgtt cgtggacgtg ctcatcgcg gcgagtggt ccctgggatc aaggtcgaca 360
agggcaccgt ggagatcgcg ggca 384

<210> 16494
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-F3

 <400> 16494

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 gagtgatcga gctagctgag ctccgatcct agctagctag ctaggatacc gccataccac 120
 aagtcttctt cacaagttta ggagtgcacag caacaagaga tctcgatggc ctatgccacc 180
 gtgctcaagt acttcttctt tagcaagaag tccgaatggg gcgccaccag tgcaggccgg 240
 cgcgcccagg ccggacaccg tctacatggg cgtacgcgcc tactgctacg ccgatgagct 300
 cgtgaagacc gcgaaaacga tcgcgtcgtc ggggcgggtgc atcctggcga tggacgagtc 360
 gaacgcgacg tgctgtaagc ggctggcgtc catcgagctg gagaacacgg a 411

<210> 16495
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-G2

 <400> 16495

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 acctcgatcg gccgagatgg cgacgccgaa cgggcttgcg cggatcgaga cgaccgggaa 120
 gaagaagcag gacaacggcg tgtggtacga cgacagctcg gcgccggtgc gcgcgcagac 180
 catcgacgag ctgcactcgc tgcagcggaa gcggtcggcg cccagcacgc ccaagcggtc 240
 ggcgcccacc acgcccata agggcgggcg ccaactcgccc ttcgccgtcg cgatctccga 300
 ggaggagcgc cacacgcagc agatgcagtc catcagtgcg tcgttggcgt ctctgacgcg 360
 tgaaaccggg ccgaaagtgg tcaagggcg 389

<210> 16496
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-H3

<400> 16496

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tggttagcag cagggactat aaacaacaga gtaccatccg cgttgataga tctttattac 180

tgcaaaattg atccccgcag cactaccggt agttgcggtg gacgggagtg tacatgcagt 240

tctctgcata tttcaccagg tcgctggggg gaggcagacg ggtcgccaga ccgagctcgt 300

aggcttttgc agccacggct gcagcgatgt gcgcagagat ctttatgatg ctggtgaagg 360

gtgggaagat ggaaccct 378

<210> 16497

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D9

<400> 16497

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cctgccaaaa gtatggatcc atatttagtc gccctcaggg tctttatatc agtttgaagg 120

agaagggaaa gatccttgag gtgttgaaga actggccaga gaggagcatt caggttatag 180

ttgttactga tgggtgaacgt attttggggc ttggagatct cggatgccag gggatgggga 240

ttcctgttgg taaactttcc ctttacctg ccctgggagg agttcgtcca tctgcttgct 300

tgccgatcac attggatgtt ggtacaaata acgaggagct gcttaatgac gaattttaca 360

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<210> 16498

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-G10

<400> 16498

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agagttcatg tctgctgtta agcaattcta tggtagaaaa gtcctcattc agtttgagga 120

ctttgccaat cataatgcct ttgatttgcg tgaaaaatat agcatgagcc atcttggttt 180
 caatgatgat atccagggca cagcatcagt ggtccttgca ggtttgtag cagcactcaa 240
 gatggttggt gggaccctgg cagagcagac ttatttggtc cttggtgctg gggaggctgg 300
 aactggtatt gcagaactta ttgctcttga gatttcgaaa cagacgaatg ctccaattga 360
 agagtgccgc aagaagggtt ggctgggtga ctcaaagggt ttgattgttg actctcgtaa 420
 aggtccctt cagccattca agaaa 445

<210> 16499

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-A5

<400> 16499

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 gccccagcg tcgccgtgga aaacctcaac cccaaggctc tgaaatgtga gtatgcagtc 180
 cgtggcgaga ttgtcatcca tgctcagcgc ttgcagcaac aactacaaac acaaccaggg 240
 tctcttctt ttgatgagat cctgttctgc aacattggga atcctcaatc ccttggtcag 300
 caacctgtga cgttcttcag ggagggttctt gctctttgtg atcatccatg cctcttgtaa 360
 aa 362

<210> 16500

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E4

<400> 16500

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 gtccgtgggg agattgtcat ccattgctcag cgctgcagc aacaactaca aacacaacca 120
 .gggtctcttc cttttgatga gatcctctat tgcaatattg ggaatcccca atctcttggg 180
 cagcaacctg tgacattctt cagggagggt cttgctctt gtgattatcc gtgcctcttg 240

gaaaaagagg aaaccaaadc attg

264

<210> 16501

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A9

<400> 16501

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acgcagtcct tccgtcgtcg cgaagctgat ccctcgtgtt cgccatggcc cccagcgtcg 120
ccgtggaaaa cctcaacccc aaggctcttga aatgtgagta tgcagtcggc ggcgagattg 180
tcattccatgc tcagcgtttg cagcaacaac tacaacaca accaggggtct ctttctttttg 240
atgagatcct gttctgcaac attgggaatc ctcaatccct tggtcagcaa cctgtgacgt 300
tcttttaggga ggttcttgct ctttgtgacg atccatgcct cttggaaaaa gaggaaccca 360
aatcatcggt cagtgtgat gctattttctc gagcacagca gattcttgca acta 414

<210> 16502

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-E1

<400> 16502

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gctggtacgc aatccttccg tcgctgcgaa gctgatccct cgtgttcgcc atggccccca 120
gcgtcgccgt ggaaaacctc aaccccaagg tcttggaatg ggaatatgca gtcggtggcg 180
agattgtaat ccatgcttag cgcttgacgc aacaactaca aacacaacca gggctctcttc 240
cttttgatga gatccttggt tgcaccattg ggaatcctaa atcccttggt cagcaacctt 300
ggacgttctt caggagaggtt cttgctcttt gggatcatcc atgccttttg gaaa 354

<210> 16503

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A8

<400> 16503

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cctcggcttg tacgcaatcc ttccgtcgct gcgaagctga tccctcgtgt tcgccatggc 120
ccccagcgtc gccgtggaaa acctcaaccc caaggtcttg aaatgtgagt atgcagtcgc 180
aggcgagatt gtcatccatg ctccagcgtt gcagcgacaa cgtcgaacac aaccagggtc 240
tcttactttt gatgagatcc tg 262

<210> 16504

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-C8

<400> 16504

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gcaattttgc taccgtgaaa acttagttct gctagcacat gaagtgtatc aacagaacat 120
ttatcaagat gaacggccat ttataagcgc aagaaagggt atgttcgaca tgggtccacc 180
aataagcagt gagcttcagg ttgtttcttt ccacactgtg tcgaaagggt actggggaga 240
gtgcggaaca cgtggtggat acttcgaaat gacaaatctt cctgccaaga cagtagatga 300
gatctacaac gttgcatcga tagcactgag tccaaacgtt cctgggcaaa tttttatggg 360
agtaatggtt aaccctacta aacctggaga tatcgtgtac ctg 403

<210> 16505

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-E2

<400> 16505

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gctccggtaa gagagcagat ctacaaggta gcttcagtga acctgtgctc caatatcact 180

ggtcaaatcc ttgcgagcct cgtcatgaat ccaccaaagg ttggggacga atcatatgct 240
 tcctacaagg cagagaaaga tggaatcctt cagtcttttag ctcgccgtgc aaaggcactg 300
 gaagatgcat tcaacacgct tgagggattt tcatggtaac aggctgaaag agcaatgtac 360
 cttttccctc agatccatct gccacataag gcaattgagg ctgctaaagc tgccaagaaa 420
 gcacctgatg c 431

<210> 16506
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C8

<400> 16506

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 gatcacctca cgtgacggat tccctgcaaa tgcagatgac attttcatta cagacggagc 180
 aagtccctggg gtccacatga tgatgcaatt actgattagg aatgagaaaag atggcattct 240
 gtgcccattt cctcagtacc ccttgtaact ggccctcata gctcttcatt gtggagctct 300
 tgtcccctat taccttgatg aaaaaactgg gtgggggttt gagatctctg atcttaagaa 360
 acaactcgaa gatgctcggt caaa 384

<210> 16507
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-E4

<400> 16507

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 cccaagggaa agctgctatt ctggtaaggg cggagaccag ccctgaggac gttggtggca 180
 tgcacgctgc tgtggggatt cttacagaga ggggtggcat gacttccac gctgctgtgg 240
 tcgcacgtgg gtgggggaaa tgctgcgtct cgggatgctc aggcattcgc gtaaactgatg 300

cggagaagct cgtgacgata ggaggccatg tgctgcgcga aggtgagtgg ctgtcgctga 360
 atgggtcgac tgggtgaggtg atccttggaa agcagccgct tccccacca gcccttagtg 420
 gcgatctggg a 431

<210> 16508
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-B4
 <400> 16508

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 ccgtccctgc tctccgtccg ctccggcgcc gccgtgtcca tgcccggcat gacggacacg 120
 gcgtcaacc tggggctcaa cgacgaagtg gccgcgcgc tggcgggtcaa gagcggcgag 180
 cgcttcgcct acgactgctt ccgccgcttc ctcgacatgt tcggcaacgt cgccatggac 240
 atgccccgct cactgttcgc agagaagctt gagcacatga aggaatgcaa ggggtgaat 300
 aacgacaccg acctcacggc ctctgacctc anagagcttg tgggtcagta cacggaagtc 360
 tacctctcag ccataggaga gccattcccc tcagacccca tgaagcagct ggagctagca 420
 gtgctggctg cgttcaactc 440

<210> 16509
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-G11
 <400> 16509

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 cggccgagat ggcgacgccg aacgggcttg cgcggatcga gacgaccggg aagaagaagc 120
 aggacaacgg cgtgtgttac gacgacagct cggcgccggt gcgcgcgcag accatcgacg 180
 agctgcactc gctgcagcgg aagcggtcgg cggccagcac gcccaagcgg tcggcgccca 240
 ccacgcccat caaggcggt gccactcgc ctttcgccgt cgcgatctcc gaggaggagc 300

gccacacgca gcagatgcag tccatcaatg cgtcgttggtc gtctctgacg cgtgaaaccg 360
ggcccg 366

<210> 16510
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A4

<400> 16510

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cggccgagat ggcgacgccg aacgggcttg cgccgacga gacgaccggg aagaagaagc 120
aggacaacgg cgtgtgttac gacgacagct cggcgccggg gcgcgcgcag accatcgacg 180
agctgcactc gctgcagcgg aagcggtcgg cgcccagcac gcccaagcgg tcggcgccca 240
ccacgcccat caagggcgcc gccactcgc ctttcgccgt cgcgatctcc gaggaggagc 300
gccacacgca gcagatgcag tccatcagtg cgtcgttggtc gtctctgacg cgtg 354

<210> 16511
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-D2

<400> 16511

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cggccgagat ggcgacgccg aacgggcttg cgccgacga gacgaccggg aagaagaagc 120
aggacaacgg cgtgtgttac gacgacagct cggcgccggg gcgcgcgcag accatcgacg 180
agctgcactc gctgcagcgg aagcggtcgg cgcccagcac gcccaagcgg tcggcgccca 240
ccacgcccat caagggcggt gccactcgc ctttcgccgt cgcgatctcc gaggaggagc 300
gccacacgca gcagatgcag tccatcagtg cgtcgttggtc gtctctgacg cgtgaaaccg 360
ggccgaaagt ggtcaagggc gaccgggccg cgaagggcga ggccgtcgcg cagggcgccg 420
catcgacgcc gagggcgc 438

<210> 16512
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-013-Q1-K1-F1

<400> 16512

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gggcgcgggc gagatgaaga aggggctctt cggcgctcatg cactacctca tgcccaagcg 120
cggcatactc tcgctgcact ccggctgcaa tatgggcaag gacggcgacg tcgccctctt 180
ctttggcctc tcaggtaccg ggaagacgac gctgtcgacg gatcacaaca ggcttctgat 240
cggcgacgac gagcactgct ggagcgacaa tggcggtgtcc aacatcgagg gaggctgcta 300
cgccaagtgc atcgacctgg cgcangagaa agagcctgat atttggaacg 350

<210> 16513
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E8

<400> 16513

gcttcatcgc tcgttccctt tcgaaagccc ggcacgcac gtcggtcgtc ccgagcagga 60
cctcgatcgg ccgagatggc gacgccgaac gggcttgctc ggatcgagac gaccgggaag 120
aagaagcagg acaacggcgt gtggtacgac gacagctcgg cgccggtgcg cgcgagacc 180
atcgacgagc tgcactcgtc gcagcggaag cggtcggcgc ccagcacgcc caagcggtcg 240
gcgcccacca cgcccatcaa gggcggtgcc cactcgccct tcgccgtcgc gatctccgag 300
gaggagcgcc acacgcagca gatgcagtcc atcagtgcgt cgttggcgtc tctgacgcgt 360

<210> 16514
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C3

<400> 16514

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cattccccctc agaccccaag aagcagctgg agctagcagt gctggctgtg ttcaactcgt 120
gggagagccc cagggccaag aagtacagga gcatcaacca gatcactggc ctcaggggca 180
ccgccgtgaa cgtgcagtgc atggtgttcg gcaacatggg gaacacttct ggcaccggcg 240
tgctcttcac caggaacccc aacaccggag agaagaagct gtatggcgag ttcttggtga 300
acgctcaggg tgaggatgtg gttgccgaa taagaacccc agaggacctt gacgccatga 360
agaacctcat gccacaggcc tacgacgagc ttgttgagaa ctgcaacatc ctggagagcc 420
actacaagga aatgc 435

<210> 16515
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-F9

<400> 16515

cgtcggtcgt cccgagcagg acctctatcg gccgagatgg cgacgccgaa cgggcttgcg 60
cggatcgaga cgaccgggaa gaagaagcag gacaacggcg tgtggtacga cgacagctcg 120
gcgccggtgc gcgcgcagac catcgacgag ctgcactcgc tgcagcggaa gcggtcggcg 180
cccagcacgc ccaagcggtc ggcgccacc acgcccata agggcggtgc ccaactcgccc 240
ttcgccgtcg cgatctccga ggaggagcgc cacacgcagc agatgcagtc catcagtgcg 300
tcgttggcgt ctctgacgcg tgaaaccggg ccgaaagtgg tcaagggcga cccggccgcg 360
aagggcgagg ccgccgcgca tggcgcgcca tcgacgccga gggcgc 406

<210> 16516
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G11

<400> 16516

cactcgtttc ctttcgaaag cccgcgctcg cacgtcggtc gtcccagaca ggacctcgat 60
cggccgagat ggcgacgccg aacgggcttg cgcggatcga gacgaccggg aagaagaagc 120

aggacaacgg cgtgtggtac gacgacagct cggcgccggt gcgcgcgcag accatcgacg 180
agctgcactc gctgcagcgg aagcgggtcgg cgcacgacac gcccaagcgg tcggcgccca 240
ccacgcccac caagggcggc gccactcgc ccttcgccgt cgcgatctcc gaggaggagc 300
gccacacgca gcagatgcag tccatcagtg cgtcgttggc gtctctgacg cgtgaaaccg 360
ggccgaaagt ggtcaagggc gacccggccg cgaagggaga ggcc 404

<210> 16517

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G8

<400> 16517

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ggaggccatg tgctgcgcga aggtgagtgg ctgtcgtga atgggtcgac tggtgagggtg 120
atccttggga agcagccgct ttccccacca gcccttagtg gtgatctggg aactttcatg 180
gcctgctgg atgatgttag aaagctcaag gtccctggcta acgccgatac ccctgatgat 240
gcattgactg cgcgaaacaa tggggcacia ggaattggat tatgccggac agagcacatg 300
ttctttgctt cagacgagag gattaaggct gtcaggcaga tgattatggc tcccacgctt 360
gagctgaggc agcagggcgt cgaccgtctc ttgccgtatc agaggtctga ct 412

<210> 16518

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E9

<400> 16518

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atcgaggaca ttgtaagtga attatgtgct gagacgggag ccaaccagga ggatgccctc 120
gcgcgaattg aaaagctttc agaagtaaac ccgatgcttg gcttccgtgg gtgcaggctt 180
ggtatatcgt accctgaatt gacagagatg caagcccggg ccatttttga agctgctata 240
gcaatgacca accaggggtgt tcaagtgttc ccagagataa tggttcctct tgttgaaca 300

ccacaggaac tggggcatca agtgactctt atccgccaag ttgctgagaa agtggttcgcc 360
aatgtgggca agactatcgg gtacaaagtt ggaacaatga ttgagatccc c 411

<210> 16519
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-F8

<400> 16519

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tgctgagaaa gtgttcgccca atgtgggcaa gactatcggg tacaaagttg gaacaatgat 120
tgagatcccc agggcagctc tgggtggctga tgagatagcg gagcaggctg aattcttctc 180
cttcggaacg aacgacctga cgcagatgac ctttgggtac agcagggatg atgtggagaa 240
gttcattccc gtctatcttg ctcagggcat cctccaacat gaccccttcg aggtcctgga 300
ccagagggga gtgggcgagc tgggtgaagtt tgctacagag aggggccgca aagctaggcc 360
taacttgaag gtgggcattt gtggagaaca cgggtggagag ccttcctctg tggccttctt 420
cgcgaaggct gngctggatt acgtttct 448

<210> 16520
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-005-Q1-K1-B6

<400> 16520

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ctttccgatg ggtgccaggc tatggtattg atcgtaccct gaattgacan gagatgcaag 120
ncccggtgcc attctttgaa gctgctatag caatngacca accagggntg ttcaagctgt 180
tcccangaga taatggcttc ctcttggttg aacaccacag gaactggggc atcaagtgc 240
tcttatccgc caagttgctg agaaagtgtt cgccaatgtg ggcaagacta tcgggtacaa 300
agttggaaca atgattgaga tcccagggc agctctggtg gctgatgaga tagcggagca 360

ggctgaattc ttctccttcg gaacgaacga cctgacgcag atgacctttg ggtacaacag 420
 ggattatgtg gggaa 435

<210> 16521
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-H7

<400> 16521

atcggaggcc atgtgctgcg cgaagggtgag tggctgtcgc tgaatgggtc gactgggtgag 60
 gtgacccctt ggaagcagcc gctttcccca ccagccctta gtggtgatct gggaaactttc 120
 atggcctggg tggatgatgt tagaaaagctc aaggctcctg ctaacgccga taccctgat 180
 gatgcattga ctgcgcgaaa caatggggca caaggaattg gattatgccg gacagagcac 240
 atgttctttg cttcagacga gaggattaag gctgtcaggc agatgattat ggctcccacg 300
 cttgagctga ggcagcaggc gctcgaccgt ctcttgccgt atcagaggtc tgacttcgaa 360
 ggcattttcc gtgctatgga tgga 384

<210> 16522
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E8

<400> 16522

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 attgagatcc ccagggcagc tctggtggct gatgagatag cggagcaggc tgaattcttc 120
 tccttcggaa cgaacgacct gacgcagatg acctttgggt acagcaggga tgatgtggga 180
 aagttcattc ccgtctatct tgctcagggc attctccaac atgaccctt cgaggtcctg 240
 gaccagaggg gagtgggcga gctggtgaag cttgctacag agagggggccg caaagctagg 300
 cctaacttga aggtgggcat ttgtggagaa cacggtggag agccttcctc tgtggccttc 360
 ttcgcgaagg ctgggctgga ttacgtttct tgctccctt tcagggttcc gattgctagg 420
 ctagctgcag c 431

<210> 16523
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F8

<400> 16523

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cttcgcctac gactccttcc gccgcttcct cgacatgttc ggcaacgtcg tcatggacat 120
cccccgctca ctgttcgaag agaagcttga gcacatgaag gaatccaagg ggctgaagaa 180
cgacaccgac ctcacggcct ctgacctcaa agagctcgtg ggtcagtaca aggaggtcta 240
cctctcagcc aagggagagc cattcccttc agacccaag aagcagctgg agctagcagt 300
gctggctgtg ttcaactcgt gggagagccc cagggccaag aagta'agga gcatcaacca 360
gatcactggc ctcaggggca ccgtcgtgaa cgtgcagtgc atggtgttcg gcaacatggg 420
gaacacttc 429

<210> 16524
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E3

<400> 16524

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atgccggaca gagcacatgt tctttgcttc agacgagagg attaaggctg tcaggcagat 120
gattatggct cccacgcttg agctgaggca gcaggcgctc gaccgtctct tgccgtatca 180
gaggtctgac ttcgaaggca ttttccgtgc tatggatgga ctcccggatga ccatccgact 240
cctggaccct cccctccacg agttccttcc agaaggggaac atcgaggaca ttgtaagtga 300
attatgtgct gagacgggag ccaaccagga ggatgccctc gcgcgaattg aaaagctttc 360
agaagtaaac ccgatgcttg gcttccgtgg gtgcaggctt ggtatatcgt accctgaatt 420
ga 422

<210> 16525

<211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-D6

 <400> 16525

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 ctacgacgag cttgttgaga actgcaacat cctggagagc cactacaagg aaatgcagga 120
 tatcgagtgc actgtccagg aaaacaggct gtggatgttg cagtgcagga cagggaaacg 180
 tacgggcaaa agtgccgtga agatcgccgt ggacatgggt aacgagggcc ttgttgagcc 240
 ccgctcagcg atcaagatgg tagagccagg ccacctggac cagcttctcc atcctcagtt 300
 tgagaacccg tcggcgtaga aggatcaagt cattgccact ggtctgccag cctcacctgg 360
 ggctgctgtg ggccagggtg tgttcactgc tgaggatgct gaagcatg 408

<210> 16526
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-F6

 <400> 16526

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 cctcaggggc accgccgtga acgtgcagtg catgggtgtc ggcaacatgg ggaacacttc 120
 tggcaccggc gtgctcttca ctaggaaccc caacaccgga gagaagaagc tgtatggcga 180
 gttcctggtg aacgctcagg gtgaggatgt ggttgccgga ataagaaccc cagaggacct 240
 tgacgccatg aagaacctca tgccacaggc ctacgacgag cttgttgaga actgcaacat 300
 cctggagagc cactataagg aaatgcagga tatcgagtgc actgtccagg anaacaggct 360
 gtggatgttg cagtgcagga caggggaacg tacgggcaaa agtgccgtga agatcgccgt 420
 ggacatg 427

<210> 16527
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D5

<400> 16527

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ctcaggcatt cgcgtaaacg atgcggagaa gctcgtgacg atcggaggcc atgtgctgcg 120
cgaagggtgag tggctgtcgc tgaatgggtc gactggtgag gtgataccttg ggaagcagcc 180
gctttcccca ccagccctta gtggtgatct gggaactttc atggcctggg tggatgatgt 240
tagaaagctc aaggctcctgg ctaacgccga taccctgat gatgcattga ctgcgcgaaa 300
caatggggca caaggaattg gattatgccg gacagagcac atgttctttg cttcagacga 360
gaggattaag gctgtcaggc agatgattat ggctcccacg cttgagctg 409

<210> 16528

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H4

<400> 16528

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attacattgt tagtgaatta tgtcctgaga ctccatccaa ccaccaagat tccctcgctc 120
gaattgaaaa gctttcacaa gttaaaccga tgcttggtt acgtgggtac aggcttggtg 180
tatcataccc tgaattgaca gagatgcaag cccgtaccat ttttgaagct gctatagcaa 240
tgaccaacct atgtgttcaa gtgttcccag acataatgct tactcttgtt ggaacaccac 300
agtaacttgg gcatcaagtg actctta 327

<210> 16529

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C12

<400> 16529

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acctcgcgcg agacgagcaa gcccaagtat ggccggagca gcagcagccg ccgtggcgctc 120

cggggtctcg gcccgccgg ccgcgccgag gagggcttct gcgggacgcc gcgctcggct 180
gtcggtggtg cgggcccga tatccctcga gaagggcgag aaggcgtaca cggtgacagaa 240
gtccgaggag atcttcaacg ccgccaagga gctgatgcct ggaggtgtta actcgccagt 300
ccgagccttc aaatctgttg gtgggcagcc agtagtttct gactctgtaa agggttctcg 360
tatgtgggat gttgatggga atgagtacat tgattacgtt ggttctctggg gtcttgcaat 420
cat 423

<210> 16530
<211> 207
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-G7

<400> 16530
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ggacggcctg gcgtcccgg agggcgncta ctaccaacaa ggcgccggg tccgccaagt 120
gccccaccgt ggcaagaatc cttaacggcc cttccaagtt cgccgtcaag gagggccctt 180
ggggcttgga acgttaggcc gcctttt 207

<210> 16531
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-D11

<400> 16531
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ctctcatcc tcccacttgc tctactctc ccgccagcag gcggcctccc tacgatgccg 120
cctctccttc ctggccagc ccagaaggcc cggcagggtc acggcccatg cgccggccgc 180
taaggacgtg cggtgcatgg cggccgtgga cactactgcg gcgtccacgg cgggggcgga 240
gacgagcccc aagtcgagca gctacgagat cgtgacgctc acgacgtggc tgctgcaaca 300
ggagcggacc ggcgcgatcg acaacgagat gaccatcgtg ctggccagca tatccacggc 360

gtgcaagcag atcgcgggcg tggtgcagcg cgcgcccatc tacaacctga cgggcgttca 420
gggcgccgtc 430

<210> 16532
<211> 125
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-019-Q1-K1-D2

<400> 16532

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ctggtacntg cctgcctca aaggcgccgg catcaagtac gacgaccccc gtgctctacc 120
tcgac 125

<210> 16533
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-A4

<400> 16533

taacaattgt actaaatata gtaaagaaat caaaataatc tttagatcaa tctaagatgt 60
cgattgccag taataaaaaa agaaatataa tagaaaaata tgggacaaaa aataaatcca 120
ctcggtttca gacttggtac aaccacaaat caccattcct tttggttcgc acaacacaaa 180
aattattctg aaggtctaca ggaagataaa aaaatacggg attgtatcaa gaactatata 240
caaaagaata ggaaaaaagg ctcgaaataga aaaatggaat cagactcaag ttctgaagta 300
attacacata tagaaattca aaaagaaatc gatacaatcc acgtcataat ccatatggga 360
ttccccaact tattaaagan aaaggagca atcgaagaat agaggaag 408

<210> 16534
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-001-Q1-K2-A7

<400> 16534

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cgggcgaaga tggttgacat acagaagcgg cgcgtgcggc tgctgctctt catcacggcc 120
gtcctcgcgc tcagcatcac cgctgagaag ttcaggggaac ttgttgaaa ggaggctgca 180
tcaaagagtg gtcaattcac attcatgaac tgctttgaca tgggctctgg cagccttgcg 240
tgactgcaa aggaggggtgt caagttgtac gtcaacaaca tccgaagtgc aacttgga 300
atggtgcggc aacgagccat ggagaaagct ttagctgatg ctgtgacgga aggcctaaca 360
cctagtgaag cagccaaaca agctcagaag attagtgc an aagcgactaa acttgctgct 420
cgtcaagc 428

<210> 16535

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B4

<400> 16535

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taatgtgtta ttacatgatt aagaatagca atcttctgca cttggataca acagattccc 120
ctgccttggg acaaaaaata cttcgaattg gtgtgggtgcc ataacatcaa gtacaattcc 180
ccccatctta acaaaattatt gtgcgtgttt caaatgcttt gacgatggta ttcaattcat 240
gtgaatacca ccacataaga aagttgggag gcttcatgat catctatctg gctagaaact 300
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<210> 16536

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-B6

<400> 16536

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gcccgctgg ccgcgccgtc gccgcgcctc gccgccccgc cgcgcagcgc gcaactgttc 120

gtctgcaagg cccagaagca gcaggccgcc gcggcgagaga gcgacgtgtc gcgccgcgcc 180
gcgctcgcgc tcctcgccgg cgtcgcgggc gtcggcgcca aggcgagccc cgccgccgcc 240
gcctacgggg aagcagccaa cgtgttcggc aagaccaaga agaacacgga cttcatctcc 300
tacgtcggcg acggcttcaa gctgctgac ccgtccaagt ggaaccccag caaggaacgg 360
gagttccccg ggcaggtgct 380

<210> 16537
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C1

<400> 16537

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cgtacgtacg tagatcgatc catcgatcgc tagctagctg acgaccatgg cgtccctctc 120
ctctgccgcc atcacgcgcc cttccttcac ggccgcgccc gctcgcgcag tggtcagcag 180
gaggtccttc accgtgcgtg cctctctccg caaggccact gccaccgccg ccgtggccgt 240
tgccgccagc gtctgtcttg ccggcgggcg cgccatggcc caggaggtgc tgctggggcg 300
aggcgacggc gggctcgtct tcgagcccag ccagttcacc gtcaaggccg gcgacaccat 360
caccttcaag aacaacgccg gcttcccgca caacgtcgtg ttcgacgaag acgaggtgcc 420
gagcggcgtc gacgcctcca agatctcgca gg 452

<210> 16538
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C10

<400> 16538

cggaattccc gggcttagag ttgcatcaga gtctgaggta tcccatgcac aggctgatgt 60
ggaaagtgca ggcataattg tttctaagtc cgatctgact ctctgctacg atgaaagggg 120
tgctaagtat gaattgcccc agtatgtttt gagtgaacca accaacctga tccgagacag 180
ctgaacggca gccggccgta tgaagacca ccgatgtaaa aactgtcaat gactgcacat 240

gccgtcaaat tggtccttg cttgtggtta ctggagtgcc tatagtaacc ttcagatttg 300
 ctttggcaac tttcggcaat agggttttcc agttctagt ttcagatgaa aaaaaacttt 360
 tgcgtaccct catctattgt tcttggttct actgtaaaca tgagtctgct tagaattctt 420
 tggagcgaga atgctgctga tattgttctc gtgcaactatc atgatacaag ctggagc 477

<210> 16539

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C12

<400> 16539

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 ccgtcgacta gacggggctc cgtacctctc cagccatggg caagatcaag atcggaatca 120
 acggtttcgg aaggatcggc aggctcgtgg ccagggtcgc cctgcagagc gaggatgtcg 180
 agctcgtcgc cgtcaacgac cccttcatca ccacggatta catgacgtac atgttcaagt 240
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 ttctcttcgg ctagaagccg gtcaccgtct ttggcatcaa gaaccccgaa gagaatccca 360
 tgtgtgagggc tggagctgag tatgtcgtgg agtccaccgg tgtcttcaact gacaatgaca 420
 atgctgctgc acatctgatg ggtgggtgcc agaaagtttt tatt 464

<210> 16540

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-C3

<400> 16540

accacgcat gcggaggcca caaaacatat gtacccaaac ttatcgatct gcgcatctcc 60
 ccaccatcca tcgtgcaacg atctgattca aaagcagaca tcaatggcta tcaactgctg 120
 caacgtcaac ggcaacggca aggctgctcc ttctgatatg gatgtgctg atatcaagtt 180
 caccaatctc ttcatcaact gctagttcgt taactcctcc ttcttcaaga cattttatac 240
 cattgacca 250

<210> 16541
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-001-Q1-K2-D7

 <400> 16541

 cactgccgta ccgggtccgga attcccgggc tttagaggaa ctgcacaaat tcttgagaaa 60
 aagggttaca ctcagtttac tcctcattat atcacatggg attgtccaga agctttttgtt 120
 gatagcaagc aatgcaaadc acagtgcac c aatcatggga gatattgtgc accagaccca 180
 gatcaggatt ttagccaagg gtatgatgga agaaatgttg tgggtcaaaa cctacatcag 240
 atttgtgtat tcaagattgc taatgagact ggaaagccat ggctgtgggtg ggattatgtg 300
 catgatttcg cacttaggtg tccaatgaag gataagaaat acaataatga ctgtgccccat 360
 gatgttatca aatcacttgg atgggacatc gagaatttaa acaagtgtg 409

<210> 16542
 <211> 479
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-E12

 <400> 16542

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 cggggccccc cgggttctc ctggagtgcc agggccgacc aagtcacgca gggcatctcc 120
 gccgccggcc tcaccgcat cgtcactggg gcgtccagcg gcacggcgcg ggagacggcg 180
 cgaacgctgg cgctgcgcgg ggcccacgtc atcatggccg tcaggagcct tcccgtgcc 240
 caggccgtca aggacgccgt cctcgcccag gcgcgggggg ccaagctcga cgtcatggag 300
 ctcgacctct cgtccatggc ctctgtccgc gctttcgcgt cccaattcat cgacaggggt 360
 ctccccctca acatccttat caacaatgca ggagtaatgg caataccttt tgcgctttca 420
 aaggatggaa ttgagatgca gtttgcaact aatcatgttg ggcatttnct gctcacaca 479

<210> 16543

<211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-001-Q1-K2-F4

<400> 16543

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 gtaggtagct agctagctga atcacatgg atcctaccaa ggtccgtccg tccagtagcc 120
 acgacacgac ggtgacgacg acgaacgctg gcgctcctgt gtggaacgac aacgaggcgc 180
 tgactgtggg gcctcgcggg cccatcctgc tggaggacta ccacctgacg gagaagggtg 240
 cgcacttcgc gcgggagcgc atccccggagc gcgtgggtgca cgcgcgcggg gccttcgcc 300
 agggcttctt cgagtgcacc cacgacgtga cgtcgctgac gtgcgcgcgac ttcttcgcgcg 360
 cgcccggcgt gcggacgcnc gtgatcgtgc gcttctcgac ggtgatccac g 411

<210> 16544
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G10

<400> 16544

ggaattcccg ggtcgaccca cgcgtgcgcc taccocgtgc tccggttcat gtcctgctgc 60
 tccccatgtc gccccactc gacctcggct acagaggcct ctgcgccggc gcggctgccg 120
 ccgctgcca cgacgacctg aagggtaccg agctccgcct tggctctgccg ggggtccggtt 180
 cgccggaccg ccgtgttggt gctgccaccg caaccaccct ggacctgctc ccggctaagg 240
 gcgccaagcg cgggttttct gacgaggcgc cgacgccatc gcccggtgca gcttcgggga 300
 agggaaagaa ggtagcggaa gaggaggacg acaagaaggt tgcagcgacg ccgcagccgg 360
 tcgcaaaagc tcaggtggtg ggatggccac caatccgaag ctaccgcaag aacacgatgt 420
 ctacca 426

<210> 16545
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G2

<400> 16545

cggaattccc gggcctaccg atgcttgttt tctagtacac tgcaagtagc actttcttgc 60
acacgtgaaa tttctggtga atgaacgacc atggaagaag caactattta gcagtagaat 120
tggttcaa at caagaccccg tatagcagag gattggaatt gaaaacacaa gcaaacattg 180
aattgaaacc atctctgtgt tatcacatgt ttagcctcac cacatgcac ttctttctac 240
tagcatgcgc acaagcaccg gtctatgttt gcctcaccac atataggcct ggcaagattc 300
gcttatatta cgcatgcctg agctaaaaaa atgcatgacg tgagaagctc tccaagcggg 360
catggggatg aacaacatgt cagcaca 387

<210> 16546

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-001-Q1-K2-G6

<400> 16546

taccggtccg gattcccggg tcgacnacgc gtccgcccac gcgtccggtc gcgtttgcag 60
ctaggcagat ctgagtttagc cggcggatcc gatccgtgcg cgtgcgagcgt gtgtgtgtgt 120
gtgtgtgtgt gtgtttgtgt cgggtggagag atggccacag cttacgctcc catggcgagc 180
caggtgatga agagcagcct cgtcgtgcac tcaaggccaa ggggcctgtc aggcgctgtt 240
gcgctaacaa ggcgggcccg cgggttcacc gtcaaggcca tccagcccga gaaggcaacg 300
taccaggtgg tgcagcccat caacggcgac cct 333

<210> 16547

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-G7

<400> 16547

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ttcaattctt ccaactccgc cgttcgcct cggtcgcctc gccgccccca tggcgtccgc 120
cgccgccacg accacctccg cccccgcca gaacctcaat ccccttagta tcaacatcaa 180
gtcccccca tggctcagcg ggtgcgctg ccccttcacc ttcgtctgcc cgcgcccgcc 240
cccgctccg cctctgccgc cgctcctcc cccgctgcc cctacggaac ccgtgggtccc 300
acggtcgcgg aggttaccaa gcctgcgggt gaccacggag tacgatagcg aagagggcgt 360
gtttgtgaac aaggtgtcgt gcaagcttgc 390

<210> 16548

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H10

<400> 16548

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ctattaatcc acccaactct ctcccgccc cgtgccaccc gcctctaccg ccgcgagatc 120
cggctccgct tccagaagct tctggaacgc ccgttccatg agcgtctgat cggccgcccgc 180
catgggctgc gctggatcca cccccaaagt cgacgagaac agcaagaaac tgaaaaggcc 240
taaggcttgg aagcataccc aaccaattac accggcacgg ctgaaacaga tgcgtgatga 300
gttctgggac acggctccgc actacggagg ccaaaaagag atctgggatg ctctgagggc 360
tgccgcggag tccgatctag cccttgaca gaccatcgtg gacagtgtg gaatcatcgt 420
gtcgaaccct gacatgacgc 440

<210> 16549

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-001-Q1-K2-H3

<400> 16549

aattcccggc tggaccacg cgtccgcagg aagctgacat ggatttattc ctttgaacc 60
tgcaacatca atgctaagtt tgaggctaaa gctattgaac ttattgttac aacatatcag 120
gctgcattgc tactactgtt taatggatct gacaggctta gttattctga gattgtaaca 180

caattaaacc tgtcagatga tgatgtaatg cgtttgctcc attctctttc ttgtgcgaag 240
tacaatatcc ttaacaagga accggctagt agatccatct ctcccaatga tgtttttgag 300
ttcaattcaa agtttactga cagaatgag 329

<210> 16550
<211> 335
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-002-Q1-K2-A10
<400> 16550

agaatggagg gagtataata gatatgggta tgtttctaatt aatacacccc gagcaacttt 60
attatatgta ttattacaag gcacatacat acagctgcaa taacgtatac atgaacacccc 120
tttgtctcgc tctgttttat ctatgcaact gctggcatgc atgcaaaaga cgcctcgggga 180
gataagacccc ctgttattct gctagtacgt atgcatgcat gtgcacgatac gatgggcgcg 240
atggtcatat catcgtttgg ttcagtagta gggtcggatc ttccagcgct ggttgcgcc 300
ctcgcaccac ttccagaagc acgacgttgg tgccc 335

<210> 16551
<211> 345
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-A2
<400> 16551

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agccctgcag cccaaccgtg gaggttcttg aaggcgggtg atcccttcta gaaccttctc 120
gagatgcaga gcgccgccc tttccggccg tgccccactc ggctgctgcc agcctcgccc 180
gatcgggatg gcaagtgccg ccagcgacag gtgtcatgca gcgcggccgg ggatgctgtg 240
gcggccccga aggcggaaga aggaggcggg ctcatgaaga cgctgtggct cggctcgctc 300
ttcggcctct ggtacctgtt caacatctac ttcaacatct ataac 345

<210> 16552
<211> 367

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-A8

 <400> 16552

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 gacccctttg cagcgggtata tagctatgat gaaccgtcag gaaacggacg agaggctttt 120
 ctacaagctt ttaattgata atgtggtgga gctgcttcct tttgtttaca caccaactgt 180
 aggtgaggcc tgccagaagt atgggtccat ctttggacga ccacagggtc tgtatgtcag 240
 cctgaaggac aaggggaagg tcctagaagt tctaaggaac tggccacata ggaacattca 300
 agttatctgt gttactgatg gtgagcgaat cttgggactt ggaaacctgg gttggcaagg 360
 aatggga 367

<210> 16553
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-B9

 <400> 16553

 accggtccgg aattcccgga gcaaccggtc caacactttc acgtcaggc gtcagctct 60
 agcaatggct gcctccacca tggcgatctc ctccacggcg atggccggta ccccatcaa 120
 ggtgggctcc ttccggcgagg gccgcatac catgcgcaag accgtgggca agccaagg 180
 ggccggctcc ggcagccctt ggtacggccc cgaccggtc aagtacctcg gccccttctc 240
 cggcgagccc ccgagctacc tcaccggcga gttccccggc gactacggct gggacaccgc 300
 cgggctgtcc gccgaccccg agaccttcgc caagaaccgc gagctggagg tgatccactc 360
 ccgctgggcc atgctcggcg cgctcggctg cgtcttcccc gagctgctct cccgcaacgg 420
 cgtcaagtcc ggcg 434

<210> 16554
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-002-Q1-K2-C6

<400> 16554

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ataattcaca acaagtacat tagcattttt atttgacatt tgagttcaaa tggacatagt 180

atcatctggt tgggccatga cagaggtttg aacttgccaa cttggacatg catatctttt 240

ggtcagaata aaactgcaga cctttgtttg atgggtattgc tttcatctaa tcacactttt 300

ggccactgtg ggctgactac ctctaattgtg ctgaaaacta actgcatgcg actagcaact 360

actgatggtt tctctgaact tcct 384

<210> 16555

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-D11

<400> 16555

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acaaagagat ctctgcattc ttggatcaga gggaaaggac caaagtgccg gctgatactt 120

cagtttctgc tccagaagct gaaagctatc aggaggaagc tgctccagaa gatgagggaa 180

gtagtgaaga attgagctct gtgtcagaag tagcaactga tgtttctcct cctgtatctg 240

atgcctcctc tcaggtggga attcaggatt ctacttctgt ggcaaagtct gctgaggacc 300

aaactgtagg atctgaaagt tcacctacaa ttagtgttga actgtcctcc aacgggaccc 360

cagatagctc tattgtgtct tcagtttcag aaactgcaga taaacctact gaacctgaag 420

aatcttcagc ggtagaaaga g 441

<210> 16556

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-E6

<400> 16556

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acgactattg acaaaatatg gaacattaca acaaacgtct cagagacaga catctatgaa 120
 accatgcata attttctcat aaatacatga ccaacaaacc atctctttgt caatttgggt 180
 gacttttagct gctctcatga tgtgcccgtg aaactgagaa aactgtacct aagcacctgc 240
 ttgccataca ccaaccatgt ttctgctcat ttgtcgcaag gggcagatag ttaatctgtg 300
 aagggtgataa cgatgccagc tgacttaact ggtgcctgtg gtcacatcta gtcagatgac 360
 tccaaaccat agtcaagcat ttctttatgt tt 392

<210> 16557

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F11

<400> 16557

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 cgcaatggcg agcagcacca tggccctctc ctccacgggc ttcgccggca aggccgtgaa 120
 cgtgccgtcg tcgtccgcct tcggcgaggc ccgcgtgacg atgcgcaaga cggcggggaa 180
 ggccaagccg gcgggggctg ccgggagccc gtggtacggc cccgaccgcg tgctgtacct 240
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 ctgggacacc gcggggctgt cggcggaccc ggagacgttc gccagaacc gggagctgga 360
 agtgatccac tcccgctggg ccatgctggg cgcgctcggc tgcgtcttcc cggagctgct 420
 cgcccgaac 430

<210> 16558

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-F4

<400> 16558

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 caacccacc cagctctgcc ggtcccgcgc tgcgctgggc aagccagtga aggggcttgg 180

cctgggggatg gggcgggagc gcgcaagcca gcgagagcatc acgtgccagg cggcgagcag 240
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ggcgccata tcgctgccca ccgtcagcat ggctgtcccc tacggcgccct tcttcgtccc 360
cgccggctcc gggaacggcg gcggcgggac ctacgccaaag gacaagctgg gcaacgacat 420
cacggtggag gagtggctca acacgcacgg tcccaacgac cgtacgctcg cgcaggggct 480

<210> 16559
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G11

<400> 16559

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ccctttcaag aaaggccaag ggaatggctc ttgcatagtg gttggtggat gaaattgatg 180
ctgttgaaaa ggcaagaggt acaggtattg gtggtggaaa tgatgaaagg gagcagactc 240
tcaatcaact actaactgag atggatggtt tcgagggcaa cactggaatt attgttattg 300
ctgccactaa ccgggctgac atattggatt ccgctttact tagaccctgg cgttttgata 360
gacaggtgtc tggtcacgtt cctgatgtac gtggaaggac agagattcta aaagtgcattg 420

<210> 16560
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-G12

<400> 16560

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ccttttcaag aaggccaagg agaatgctcc ttgcatagtg tttgttgatg aaattgatgc 180
tgttggaagg caaagaggta caggtattgg tgggtggaat gatgaaaggg agcagactct 240
caatcaacta ctaactgaga tggatggttt cgagggcaac actggaatta ttgttattgc 300

tgccactaac cgggctgaca tattggattc cgctttactt agacctgggc gttttgatag 360
acaggtgtct gtcgacgttt ctgatgtacg tggaaggaca gagattctaa aagtgcattg 420

<210> 16561
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-002-Q1-K2-G2

<400> 16561

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ggttggtagg acaaaggtgc ttcttgatac agatcctggt cacaggctag ctgatattgc 120
tgttgctagc tttgagataa gttgtgagga gcagctttcg atgctggatt cagttcactt 180
gaatgttata ctctgaaagg caactgaact tgtagacaga cacctgcagt cgattcttgt 240
agctgataaa ataacgcaca aagttgaggg gcaactatca aagtcgcaga aagaatttct 300
actgctccag cagatgatgg ccataaaaga agaacttggt gatcacgatg acgactatna 360
tgatgttgct gctgttgaaa gaaagatgca gaatgcatga atgcttgcta atatttggaa 420
gcatgc 426

<210> 16562
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H3

<400> 16562

taggcagatt aaagctaccg tcatgcaact aatatctggt ctagaacaca tgcaaagggc 60
gggtggtagg acaatggtgc ttcttgatac agggcctggt cacaggctag ctgctattgt 120
tgttgatagc tttgagatag gttgagacga acagctatcg atgctggatt cagttcactt 180
gaatgtgata ctctaaaggg catctgaact tgtagaccga cgcttgctga cgattcttgt 240
agc 243

<210> 16563

<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-002-Q1-K2-H5

<400> 16563

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ggcgcaggcg gtggaggagt ggtaccggca gatgcgcac atcacgcgct cctacctcac 120
cgccgctgtc gtcaccaccg tcggctgcac cctcgaaatc atttcgccgt atcacctgta 180
ccttaacccg aagctcgtgg tgcagcacta cgagatttgg cgctcgtca ccaacttcct 240
ctacttccgc aagatggatt tggattttct attccacatg ttctttcttg cacgatactg 300
caagcttctg gaggaaaact catttagagg aagaactgct gacttttttt acatgctctt 360
gtttggtgct actgtcctaa ctggcattgt tctgatcgga gggatgatac cttacatttc 420
tgagacatth gccagaattc tgttcttgag caattcattg acatttatga tgggt 474

<210> 16564
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-A12

<400> 16564

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caaccggacc gggcaccag cgcaaagcga tggcgtcgct caccatgatg gcgtccttcg 120
ccgccgtggc ggtggccgcg cctcgcgcc gcggcacctt aaacgtggtc aggtccgcc 180
aggacgaccg ctgccaggag cccgccacgc tagcagcaac cgaagccagg cccgtctgcg 240
actgacgccg agccggcatg ctgcggctg c 271

<210> 16565
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B3

<400> 16565

ccggttcggga attccccgggg agaacaatca tatatatatt gttgcttaaa gagaagagaa 60
gagtaagaga agatcgacaa gagattggcg gtaatggact cctcggagct gcacatactg 120
gccttgcaga ggggtgaagca ggtggagccg gagaacgcga gcaagatcct cggctgcac 180
ctcctggagg aaccgcacaa ccaggatatg ctgcagctcg cctacggcaa cgacgccgag 240
gtgcacgcca agatcagcca cgccaaggcc atgctggacg ccacgctcgc gtgctgctcc 300
tcctcgccgg ccttcggcta ccactactgg ccgtcgggtgc ccaataaggc gcaggcagag 360
gagtacgctg tgcagccgca gcactacagt ggcggaaggt gctactacgc ctctgagaac 420
gcgctcatct acaatggcgg gggg 444

<210> 16566
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-003-Q1-K1-B6

<400> 16566

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caagtccttc tctctgtcca agtgcacga gatcaaggac atatgctctg cacctgcaca 120
gcttcagaa tgcaaatcgc ttcagtcctt ggccatcaag gattgctcag gcttcaccga 180
caccagcctc cctatgttgg catgttctgc cctcagctgg agaacatcaa tatgagtggc 240
cttagtgtag tcaccgacaa tggcttcctt ccactaatga agagctcgaa aagtgggctg 300
gtcgacattg atttgaacag ctgcgagaat ctacagaca tggttgtttc tgccttggtt 360
aaggccatga cgcttcctt gccacctcag ttctgagga tgcacanga tcaatgatgc 420
anacctgttc gccatctgtg agagc 445

<210> 16567
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-B8

<400> 16567

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agaaggacta ctctatggca acagcggatg ttgtggacgc cgatgtgagg gaactcgtgg 120
agaaggccta ctctagagca aggcagataa tcaccacgca catcgacatc ctccacaagc 180
tcgcccagct cctgatcgag aaggagaccg tggacgggga ggagttcatg agcttgttca 240
ttgacggcca ggccgagctg attgtcgtt gagatgtcac aaggcttgcg gtgcgtatgc 300
ttttcagtgt tttgtgtcag agcgagcaat cacaaagcaa tggaaagccc agcttgtagg 360
aaccacatcg atgtatagta gttgatacgc atgtactgac ttaattga 408

<210> 16568

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-C12

<400> 16568

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ccgtgcccgc ttggtggggg cttgctgtgc gcggctaggc cccaggtgga ggcttcccgg 120
ctcctggacg tgcccacggg tcgactcgac gatatgggcc cggggctgga cgcctgcggc 180
cgggggagcg gcctggcaga ggggctacag cgcagagggtg aagactgagg acgagctgcg 240
ggtgcggtac ctggaggagg agaaccgagg aattgtggtg cttggaataa acagagccta 300
tgccaaaaat tcattaagta aaaatcttat aaaaatgctt tcaaaagctg tggatgcttt 360

<210> 16569

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-003-Q1-K1-D11

<400> 16569

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agcagcagca gcagtaattc atagtgggcg gtgtgatagc agcagtgaga tcgaggagag 120
gatggagggtg ttcattccacg aggactacgt gaacaagcgc aacgagctga ggaggagca 180
gaggcgccgg gaactgcaga ggctgcaggt ggagagcaac cccgacgcgt cccgggaggc 240

gctggcaagc cgggagagcc cgaggacgcc ggctcagtgc ctgacgccga cgggcgcgtc 300
gccgtccagc ttcagatccc cgacttcgag gagcacgctg cagtcgccgg ccgcagcggc 360
ggggcaggct gctggttggc cgtcggagca tcgccgnctc tacgactgcc tcaagccgta 420
ctag 424

<210> 16570
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-003-Q1-K1-D12

<400> 16570

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aaatagctga gaagaagcta ataagccaat cagtataaa gcattgcatt gatttatatt 120
ttcagtaccc ttataataac tttttgcac atcatgttga gaacattatt gtttcttgcc 180
ttgagggttaa aagaaatcaa ttgattgacc atattcttaa tgactgtggt cttgttggtgta 240
aagtccttgc cgctgaaaaa agttcttctc tggcagtgga gtctaattggg ccaacattac 300
catcagaagg gaaagaacct ncaagaattg ggaatattgg gcacataact cgaatagcga 360
ataagctcat tcaatttgga aatagtaaca gcatgatcca gagtcacttg cangagaaca 420
gtgagtgggc tgtatggcaa atagatgttc tgatc 455

<210> 16571
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D3

<400> 16571

ccggttcgtg aattcccggg tcgaccacg cgttcgcgca tcgctagggt tag 53

<210> 16572
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-D8

<400> 16572

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gtccttcacc gtgcgcgcct ctctccgcaa ggccaccggc accgccgccg tggcaatggc 120

tgccagcgcc ctgcttgccg gcggtgccat ggcccaggag gtgctgctgg gcgcaggcga 180

cggcgggctc gtcttcgagc ccagccagtt caccgtcaag gccggcgaca ccatcacatt 240

caagaacaac gccggcttcc cgcacaacgt cgtcttcgac gaagacgagg tgccgagcgg 300

cgtcgacgcc accaagatct cgcaggaaga gtaccttaac gcgccaggcg agacctactc 360

cgtcaccctc accgtgccgg gaacctacgg cttctactgc gagccgcata aaggaaccgg 420

aatggtcggc aagatcaccg tcaactaatt aaagctagct atcgatcgat at 472

<210> 16573

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E11

<400> 16573

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tggttacaag ccatgatcat gtggagcggc cgagggaaaa tatatctgga gagggaaaca 120

atgtctggct aggacggtct taaggtcctc ggctgcagg tgatccctgt cgtgctctgt 180

agtggcttgg cgctgaacat gaaaggagtg agttacgagt acgtgaagga cgacatatcc 240

aacgagagtg agcttctgct caagttcaac ccggagcaca agatggtgcc cgtgctcata 300

cacaacggta agcccatctg cgagtcactc gacatcatgc agtacgtcta cgagctgttc 360

gccggtcggc cgatcctagc aactgatcac tacgagcgca caagtggctg attacgagct 420

gcctacg 427

<210> 16574

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E12

<400> 16574

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 atcactgtgt gactgcggcg acaaggccat cgcggaacggg agcctcctgg acctcctgcg 120
 ccagggtgtt acgttcgggc tctccttggt gaagctggac atccggcagg agtcggagcg 180
 gcacaccgac gtgatcgacg ccatcaccac gcacctcggc atcgggtcgt accgcgagtg 240
 gcccgaggac aagaggcagg agtggctgct gtcggagctg cgaggcaagc gcccgctgct 300
 gcccccgac cttccccaga ccgacgagat cgccgacgtc atcggcgcg tccacgtcct 360
 cgcgagctc ccgccccgaca gcttcggccc ctacatcatt tccatggcga cggccccctc 420
 ggacgtgctc gccgtggagc ttctgc 446

<210> 16575
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-E6

<400> 16575
 aattaatata ccccgagcaa ctttattata tgtattatta caaggacat acatacaggt 60
 gcaataacgt atacatgaac accctttggc tcgtcctgt ttatctatgc aactgctggc 120
 atgcatgcaa aaaacgcctt gggagataaa acccctgtta ttctgctagt acgtatgcat 180
 gcatgtgcac gatcgatggg cgccatggc atattatccg ttggttcaat agtagggctg 240
 gatcttccag cgctggttgt cgcccttgca ccacttccag agcacgacat tgggtgc 296

<210> 16576
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G11

<400> 16576
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 ttctcaattc ctatcgaatt ccttcctatc gaattcctat agtaaaattc ctataggata 120
 gaacgtacac aggggtgtaca cattatatat gaatgaaaca tattcattaa ctttaagcata 180
 ctcttttttt tatttaatat gttgatatta attaaatatc ttttttttta gattttttgca 240

aagggtttcat ttacgcctaa tccatatcga gtagaccctg tcgttgtag aattcttaat 300
tcatgagttg tagggagga cttatgtcac cacaacaga aactaaagca agtggttgat 360
ttaaagctgg tgtaaggat tataaattga cttactacac cccggagtac gaaaccaagg 420
atactgatat cttggcagca ttccgagtaa ctctc 456

<210> 16577

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G8

<400> 16577

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acaaaggaat ctccctggcg ttcctcagca gggtagccat gtttggtctt cgtgcccgcg 120
cagcggcgca gctccagcgc ccaaccccg ttcctcctc cgttcctcg gcgtcgttct 180
cgctcgcgag gctcgggtgc gccttccgc tcgcgcctc cgcgcctctg gcttccgcac 240
cgccgtcgcc gtcggccagg gagacacagc cgacctcct ctccgccagg tggcctgccg 300
cgcccatgcg tccctgggga acccgtggcc actccaggcc gaccacgcgc gttctctgca 360
ctgctgccgg cagcgtccaa agagagggga aagaactgct agttcagcat ttgcttggtg 420
gtgaaaagga tttcaggc 438

<210> 16578

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-003-Q1-K1-G9

<400> 16578

ggatttcccg gatcgacca cgcgttcgca ataaggctat tagacatgca cattccatct 60
ttcgtgatat ccacaagtcc atatttgagg agcaggattt tgatatggtg atccgggaga 120
cgtttaacca gtctcaaggc atcaatgta ctgggatgtg cgaagatttt ctccaattag 180
ctattggcca ggagtgatcg ttgagccttt cactagagct ctctggacag aacaataatg 240
caggaacagt aggacagctt gatcatatgg atacaagtta ttctggataa cctgacattc 300

attgcaaacg ttaatgatgc ctcaaatatt gatgccacag ggtttcctaa ccccaaaagc 360
tcacaaatct acctgctgca tatgttccat gaaattctta tgaaactcaa ggagaaatct 420
cgtca 425

<210> 16579
<211> 394
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-003-Q1-K1-H12
<400> 16579

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tccgaccgag cgagcaagga gagacacgag ggcgactgag gccgtcgcac actccttctg 120
tgcatccgt acgtagcctg ctacctagca atagcaaccc gatcagccaa tcattgccgt 180
gttcaccaac tccgtttccc tattacctag atagaccagg ccagatgctg tctgcctcaa 240
cggatcgaca cgacttgagg gatggaggac tgagaccgtc gattagagtc tgagacagaa 300
gccgatgcaa caccggagcg actagctgta tgagatgtac atcatcattg acacggatcc 360
ctgcatcgat gacagcgtgg acatcctgat ggca 394

<210> 16580
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-003-Q1-K1-H8
<400> 16580

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ccttgaacaa ggtgcaaagc tcaggtccaa taatgccgag aggttaacat taccagtcca 120
aggccacta aggaaattgt tcgctgacat gttatgtcac cagaatattt acttaccgt 180
tacatcattg caagaggcaa atgataacag gaaggaagtc aggggttgaat ccagtcaaga 240
aactgttagt aatggtttcc ataggccaaa gacaggagag tctgtgattt ccattgaaaa 300
tgaggagtcc ataaatgatg cccagacaca agaaattact caagcaataa tgccaactgg 360
ttcttctgta agtgataaag atgcagaatc acctgttatt ggagacaatg gggca 415

<210> 16581
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-A5

<400> 16581

taccggttcg gaatcccggg tcgaccgacg cgtccggcgt gtaaatacatg gcgtcctccg 60
 cggtcctcaa cgtctctgtc ctccgatcgc catgaccgac gctctcgtcc tcatactaacc 120
 gtcgcatcac cggcgcccttc acgagcccga accgaccggg ctttccatgc ctgcgttctg 180
 tgcgctgact cagccttgcg agggcggtg cagcgcagtc gccgggcat ggccgcgagg 240
 acgagtgggg gccggagccc gagggcgggt ccgctgtcac agcggccgca gcggcggagg 300
 cgccgggagc gagagaggtc acggagctca gggctcgagt caaggacgcg c 351

<210> 16582
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-B6

<400> 16582

accggtctcg gaattccggg tcgaccacgc gtccggcgca atgagtttgc tgatgaatct 60
 attggtggca acaggcactc atttgaagat gaacctgggc acaccgagg tccacatagg 120
 aggcggcatt caccaccaca tggctggctt atgagagata cggacattga cgaattctac 180
 ggaagagaga ttccagagta taggctggcg gccggttgac aaatagaaga tctcccagat 240
 agcatgatgg acgacagggt ttatatgccg tattcccata gacaccgtgg ccaaggtgat 300
 catgggttga ttcacagaga caga 324

<210> 16583
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-004-Q1-K1-B9

<400> 16583

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gaaaaaagaa ttttgatcaa atcaatagaa ggaaggatcc cttacctgat ttgaatttca 120

tcttccttta aataggatat gctctaagtc ttcccatact ttcctataat gactgcaacg 180

attttctcca ttttgcgaaat tcctatttta tttgaagtat attactatca tatacattat 240

ctaaatcgat ccacttttaa taaaatagaa aaaatcgaaa gaaaaaaaaa aaagaaagag 300

taaataataa aacaagatat tctgtttcat aattctgaaa tagagttctt ntttttagta 360

ttactcctca ttaggatgta ttatattaat catcctatct taatatatat taatcatcct 420

attttaatag gttctaattcc aattagtaat 450

<210> 16584

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D11

<400> 16584

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aattttgatc aaatcaatag aaggaaggat cccttacctg atttgaattt catcctcctt 120

taaataggat atgctctaag tcttcccata ctttcctata atgactgcaa cgattttctc 180

cattttgcca attcctatct tatttgaagt atattactat catatacatt atctaaatcg 240

atccacttta aataaaatag aaaaaatcga aagaaaaaaa aaaagaaaga gtaaataata 300

aaacaggata ttctgtttca taattctgaa atagagttct ttttttttagt attactcctc 360

attaggatgt atatattaat catcctatct taatatatat taatcatcct attttaatta 420

ggttctaata caattagtag taagtatttt ctttttttatt taataagctc t 471

<210> 16585

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-D7

<400> 16585

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 cctactcgtc ctccaccacc gacgtcacgg ggctccccag taatggacag cgggcgtcgt 120
 cctccttctt cagcgggaag acgctgctga gacaggccga ggcgggcccg ccgctcgttcg 180
 ccgtgcgcgc cgcagcggac cccaacaggc cgatctgggt ccccggcagc acccctacgt 240
 cgtggctgga cggcagcctt ccctgctact tcggctttga tccctggggc ctgggggtctg 300
 acccgagagag cctgc 315

<210> 16586
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F7

<400> 16586
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 gtatccatcg tctcgctcgg gccgtccctc ccgcgtcccc gttcgaaggt gcgggtggccg 120
 gcaggcgatc gatttgattc gacatgaatt ccgagtacca ctaccttttc aaactgctgc 180
 ttattggtga ttctgatgtt gggaaatcat gcttgcttag cagatttgca gacgatgctt 240
 atttgacag ctatttcagc gcacttgggg tt 272

<210> 16587
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-F9

<400> 16587
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 cttctctagt gtacccttca ctgatcctgg gttacatggg ccaagctgct tatctgtccc 120
 agcaccataa ccttgacgca agctaccaga tcgggttcta cattgcagtt cctgagtgtg 180
 tacgggtggc tgtgctggtg ctggccatct tggcgctcgt ggtgggcagc caggccatca 240
 tcagcgggac cttctccatc atcaaccaga gccagtctct gagctgcttc cctaggggtga 300
 aagtcgtgca cacgtctgac aaagtcatg gccagatata catccctgag gtcaactgga 360

tcctcatgat cctctgcgtt gcttgcactg gtgggttccg taacaccaag cacatgggga 420
acgcgtcttg cttggccgtg atcacggtga tgctggtgac cacgtg 466

<210> 16588

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-004-Q1-K1-G12

<400> 16588

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gattatatgg aaaaagaaga agcttaagta tgctgtcttt atgaacctaa aagggaaaat 120
tgccttgata aatttaaaaa tcctggagaa aagttaattt aatcacatat tttgagcaga 180
aactatcatt tacttttaaat 200

<210> 16589

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-A8

<400> 16589

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tgatttagct tactctgcc a ttctgatctg cagaggatga tccaaaaagg atcttcttct 120
catattatac attgctatca ctgtgcatgt gctcacactg attaggtata cctggaacaa 180
agacctctta atgcaaagga aaatgggatg gatagtatct accatgcaca ttgtacaagc 240
caggaccgca tcacactaaa agggcaatac cacaactgat acatgggttac aacacgtctc 300
tcaaacatag tacccataag tagatccaca cacagctatt gcacatgact actatgactt 360
ccatggtatt caacaaggaa ttgaacctaa catttaggat 400

<210> 16590

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B11

<400> 16590

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gcagaacgaa gctgaagtag ttcggtgtga acccagtatg gcaaacgcgc cgaggatcct 120

ggccctcggc ctgctgctag cgctcctgtg cgctgcccgc ggcccggccg ccgcgcagaa 180

ctgcggctgc cagcctaact tctgctgcag caagttcggc tactgcggca cgaccgacga 240

ctactgcggc gacgggtgcc agtcggggcc gtgcgcgtcg ggccggcgcg gcggcggcgg 300

cggaggcgga ggcagtggcg gtgcgaacgt ggctaactg gtcagcgacg cgttcttcaa 360

cggcatcaag aaccaggccg ggagcgggtg cgagggaag aacttctaca cccggagcgc 420

gttcctgagc gccgtcaacg cgtaccggg ct 452

<210> 16591

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-B3

<400> 16591

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gcctgtcgaa cgtccctgag ctttttcttc aaccacggc gaccccatgg tgagctcgta 120

caaactccat ctccctgtgc gcccttagtt ctgcttcate cgttcttca 169

<210> 16592

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-C10

<400> 16592

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ttcactcaag cggcgcccaa cagaagtaat ggccactggg acggccctct ccctcagcgg 120

tggccggggc tgtactacc tgctactggg gcacggggtc ttggactcag ggcagtgtgt 180

cgcgttccca tgctcgcggt ggaagccgcc gcacctgcca gactgccgcg cgga 234

<210> 16593

<211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-C3

 <400> 16593

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 gagcgagaag aaggcaatgg cggccgagag ctgccttttc acctcggagt ccgatgaacga 120
 ggggcacccc gacaagctgt gcgaccaggt gtcggacgcc gtgcttggac gcatgcctcg 180
 cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagaccaac atggtg 236

<210> 16594
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-C9

 <400> 16594

 ccgggtcgac ccacgcgttc gatgccatca cggccagtct cttccaatgt tattcgtgat 60
 gatcatgcaa aaaggaagca agtggcaaaa agaagatttg atgaagatga tgaagacccc 120
 ttatcaatga tcagaaatat gtttgggtat gatcctagta gatatgcagg cagagatgaa 180
 gatgtcagtg acatggaagc cgattttgct actatagaaa tggaagagaa aaggagcgcg 240
 aggattgcta ggcaggagga tgaagaacaa cttcgcttga ttgaggaaga agagagactc 300
 gagcaggaga gaaagaggcg aaagatggca cgaggccgat agtcgaatac actcctatct 360
 ggatgttata atatactacc ttcgttctcg aatatttgtc gttcgctggt tcatttttga 420
 actaaaccgt gtcaaataa aaagaacgc 449

<210> 16595
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-005-Q1-K1-D2

 <400> 16595

 acccacgcgt ccgacagcaa tctacacaat cactttttaca tatcactttc gctatagaca 60

gacacaccaa gcgttggggc caatagctta ctaccaggag gtgggctact gctcagaaga 120
cgtgacgtcc ggagcctcgg gcggggttt 148

<210> 16596
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-D7

<400> 16596

tgctgttgtc gtcatttgag ttcattgttca gcaagggtcga cataaaagac ctaccagggg 60
ctaattaaca tgtaagacga actaaccctt tgcacgggca agctgggttac ctatcctgtg 120
caaattgggca gtacaatacg aaatgttcag atttcaccgt ggcatcaatg aacttatgtt 180
cgaaggcagc gacaccaccc aaggtatcga taccgattgt gaaaacgcat attgatagaa 240
ga 242

<210> 16597
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E10

<400> 16597

ggtcggattc ccgggtcgac ccagcgtccg catatgttcg ccagagggaa gtacatctat 60
caagactcac ggggaggatg taagggttcc cctcgcgtga atgctgcgcg gcgaccgggt 120
cactgccggc gacgtccact cggacgcgag atgttccatc cctttacgct tgcttcttgc 180
gcacgcggtc tgagttgata gtaattggac actgaatact tggattgtat ctctagatag 240
tctataaggt gagtgggctt ggaaggagaa atactacaag cgattatc 288

<210> 16598
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-E9

<400> 16598

cggttcggaa ttaccgggcg gacgcgtggg tttagcacagg ccactccacc ggatcttcta 60
 tttttcctag cacaaagggg aggaagtaaa ggcttcccct cgccggagat gctgccgtcg 120
 gcgaccgggt tcaactgccg cgacgtccac tcggcacgcg agatgttcca tcccttctac 180
 ctctgacttc ttgcgcacgc ggcctctagt agatagtaat tggacacttc atacttggat 240
 tggatctcta gatagcctag aaggtgagcg ggcggtggaag gagaaattcg ggaagcgatg 300
 agcttttagcg ccgcaagagt ctcgagcat ggcggttagt tcgaagaggc aagggggaat 360
 gccggcagat gtgagctggg agatgct 387

<210> 16599

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F12

<400> 16599

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 gccatcctcg gttacttcat ccaggggctc gtcaccggcg ttggcccgtt ccagaacctg 120
 ctcgaccacc tcgccgacct cgtcaacaac aacgtgctca ccagcctcaa gttccactag 180
 aacgttggtg catcagcata cctgctgccg tcgccgccag ttgtttgctg tggaaagcta 240
 gatgcatcg tggtgtaaag gaacctgaag cgttgcatcg gtcattgattc atgcatggcc 300
 agcctgctgc ctgtaacaac aaactagtat tgatcttatt gagaccggaa actgtattgc 360
 acatggtaaa tc 372

<210> 16600

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-F4

<400> 16600

cccggctcga ccacgcgta cgaaaaaata aacacgttcg atagcgcttt ctattcgat 60
 gaccgaagct caagatagag gaagcgccaa ttctgatca ctggaggact atactatctt 120
 attcaagcac ggcaactgat gtaacaccaa ttgacaataa gacgggtgta cctcttctga 180

gatgaaagct tccctttctc gtcaggtcca gatataccct ttcaacctag cac 233

<210> 16601
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G3

<400> 16601

ccggctcgac ccacgcgttc gctgagctcc aggttttcac acctgacgtt tatttatcat 60
acataaggcg cccgcgggtgc ccatggattc gtgtcaccgc gtgccgagag cgcatatcat 120
tccgagcgac gcataaacc ttatgcaggc acccgaccct ttcatgggaa ccaccaccaa 180
ccaggcaagg ctctctctct cgaagcaggt aacagaactt gcgaagcacc ccgtggatgg 240
ggtctctgat gcgctgggtcc tctacagcaa tgtcttcgag tggcaggtca cca 293

<210> 16602
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-G4

<400> 16602

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aggcgactat gagggccaag tggaagaaga agcgcatgag gaggctgaag aggaagcgcc 120
gaaagatgag gcagagatcc aagtaggctg atggggattg tggatggtgg tgtcggcata 180
gttgtgttac gtttcttcga tgcgtgagtt catggagaga tgtcacatcc tagttcgtcg 240
tcaccgtttg ccatgggtcc aatggctcgt cttggaaacc tgcacttcag taggccatct 300
atcgtggttt ctagctatat ccagagtttt gtgctaagac aaatcagtca gtcgttttgt 360
gaacctatta tgatggagct ttatttgctg ctaaatatga acctacctgg taagtaatgg 420
caacgttcgt ct 432

<210> 16603
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-H12

<400> 16603

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acgctggaca tgtgctgtac tcgaatcatc gcactactta cgattcatcc tcgaattgac 120
atgtgatctg aaaagacagg gtgcattgta caatccatga cgtgcgtggg tcactatcat 180
agcacgaggg cgatcgacgc aagcgctgtg ccacctggat cttgagctac ctgtgagcac 240
atacctgccc aacttaagcg ccaggcagcg catgttgaac tgaagatcac gatagcaccg 300
agtctccgct agtaagacag tgcactatct cgattaccaa gtcttgattc acgatactct 360
caaggtaaaa tgtggagaca agaccaaacac aatccacatt ttgctgcgac ttcgttgatg 420
cgcaatgctg tattcacta 439

<210> 16604

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-H3

<400> 16604

aaaaaaaaa agtgggtgcta tataaatttc agagatcaac aatagaatac tgaaaaaaag 60
gagagacctg aaaaacaaag ggcaagcggc ctagaggatt caagggttacg tgctcacgac 120
tgcgacctgt taactctgtc attgtgctat c 151

<210> 16605

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-005-Q1-K1-H7

<400> 16605

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cgagccgatt aaataggtgt caagtggaag tgcagtgatg tatgcatctg aggcaccta 120
acgaacgaac gatttgaacc ttgttcctac acgacctgat caaatcgatc aggcacttgc 180
catctatctt cattgctcaa ctctttgatg aaaaaaaaa atgatataga aaaaaaaaa 240

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaataaaaa 300
 taataaaaaa aataaaaaaa aaataaaaaa ggggcgcctt ttttaaagga cccaagttaa 360
 cttcccctga catgcaactt tatacctttt ttt 393

<210> 16606
 <211> 472
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A2

<400> 16606

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 gcacagactg cttcagtcct gaaagcccaa cctcagccgt catccggagg ccgggaccaa 120
 aagaaccatg taatcagggg tgttcgcgat aacgcgcaga ctgcttcgga gtcagcagcg 180
 tggatcttgc ggtcaatata aatggagagg aacaaaaatg attcgtagct gggtaccata 240
 ctttcgtgtc atccgatggc agcttagtgc agcattgcag tttacagggc taccagagct 300
 gcagattatg gtggctcctg tattctgacc actgattgcg ctttaccoga tcgtcataga 360
 tattggatga tatgatcttg tgttctatgc agagttgtaa gccaaagtgt tggccctgaa 420
 gactgaagtg acagtcttga agttgggaag tcttctgaa tgtgctatga ct 472

<210> 16607
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A4

<400> 16607

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 tccgatccgt gcgcgtgcgc agtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtcgggtga 120
 gagatggtca caga 134

<210> 16608
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-A7

<400> 16608

tggagcagag ctggacagcc gactagtgca taaggatgct cgccgtgccc gataggggca 60
caataagaaa gcgtgaaaaa aaaacacacc cactccttgt gtttctgggt cgccaggett 120
gtcgaaacat tgaagaaccc cagtgattgg tttgtagtct gtcgtcgtcg ttctgcccc 180
atcaagagcc ccggttgctc atggtgggtg ctgtcgtaat gtagcggttg ttgacctatc 240
ttctcatgaa ttgaaaggat cctgcccattg tacaaaaatt atagcgtggg aatggttgtt 300
tgacggacaa aaaaaaaaaa aaagggcggt ctgtctagag gatccaagc 349

<210> 16609

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B10

<400> 16609

aattccgggt cgaccacgc gttcgcgagc ggggtgcagc agttcaaggt caatgtctat 60
gacaagaagc ccgagctttt cgggcctgtc tagtcgggcc aggcccgcaa gtacatggtg 120
ttcgcttget acgacttcca cgtgtgcca tccgtgacct tgggcctgca tgccggtgag 180
gccttcaccg ttcgcaacat agccgtcatg gtgccaggct acgacaagac caagtacacc 240
gtcatcgtgt ccgtcatcga gtacgctgtg tgcgctatca aggtggaggt cctcgtggtc 300
attggccata gctgctgccg tggcattagg gcgctcctct gcctccagga cggcgcacct 360
gacaccttcc acttcgtcga ggactgggtt aaaatcggct tcattgcaa gatgaaggtg 420
aagaaagagc acgcctt 437

<210> 16610

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-B12

<400> 16610

cggtcgcacc cagcctccc gttttaaaaa aaacagcaca aggtattagt cccgagtggt 60

ctatggccta gaaatgtcta ttatgagata aagtttgaat gctagaaata atgaagttcg 120
ctactttctt cgtaatatct tatggcacat actacacaat tgatgtttca tgaatatata 180
tacatatcta ccaaaaaaag ggttacacct gcagagttgc tgcagctaata tgtacaattt 240
acataaactg aagcgatgga aggacgaatc agctctccaa ggtctctagg gctgctatct 300
ggagttgtcc tttgaagcat ctggtgtgga ggtgctatca gaattccttg cctctgactt 360
ttcgtttgag tacgtcgaca atattgtgac ccagacaagc tccacacagt cgacccatag 420
aagtctttgc tcaacaagaa ccacacc 447

<210> 16611
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-C1

<400> 16611

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ggtcgcacgt ggggtggggga aatgctgctg ctccggatgc tcaggcattc gcgtaaacga 120
tgcggagaag ctctgacga tcggaggcca tgtgctgctg gaaggtgagt ggctgtctgt 180
gaatgggtcg actggtgagg tgatccttgg gaagcagccg ctttccccac cagcccttag 240
tggtgatctg ggaactttca tggcgggt ggatgatgtt agaaagctca aggtcctggc 300
taacgccgat acccctgatg atgattgac tgcgcgaaac aatggggcac aaggaattgg 360
attatgccgg acagagcaca tgttctttgc ttcagacgag aggattaagg ctgtcaggca 420
gatgattatg gctcccacgc ttgagctgag gcagcaagcg ct 462

<210> 16612
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D10

<400> 16612

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aaaacaactt tcatcgccag tcggcaccgg agctcccttc gtcggccttg cttcagtgtc 120

aaccccccttc tcaaaacttg tatttgcacc tcagtccttg ccggtctggc cggtcgccgg 180
ctcgccggat gaagccccctc gtctccttgc cctgcggcgg gttcatgggg ttctcgctgt 240
accccatgaa gacgttcacg cggatgctct ggagcactag cttcttccgt cataagctca 300
gctgctgcta ctgcttctc tgaggacgcc ccaccgcct cgatcgcttc ggcggcgggc 360
cgctgctgct gcgctgtcct agcatccgtt caagtgtggg ttgcgttct tgggtttcaa 420
gattggcttt tgttgcttc ttg 443

<210> 16613
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-006-Q1-K1-D3

<400> 16613
cacgcgttcg aaaatccgaa atggccgcta gtggcctctg tctcttcacc tnttctctcc 60
ccggccaaga cacccttctt cggcgccggc gccggcggtc ggcgggccac gccgccgcgt 120
cgttccggcc ggtgacggcg gagctcggcg gcgtcggac ggagctgggc cgccagctgg 180
tggaggcggg gggcgtgggg ctccctgca ccgtcatgca gtgcggcgac gtcactacc 240
gcagcacgct tccccggaac gacgggtca ccatcaggc ccccggcgtc gcgctcgcgc 300
tcgtaccgt gtgcgtacctc tggttcacgc ccggcgctgc gccgggggtc ttcgacatgt 360
tcgtcctcgg cttcgccgaa cgcctttttc gtcctttctt tcgcaaggat gacttggat 420
ttgggaagaa gcttggggag ggcgc 445

<210> 16614
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-D4

<400> 16614
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gtgtcatggt ccatgatgtg ctgctggcg caggtgatgg cgggctggtc ttcgaggcca 120
gccagttaac cgtcaaggtc ggtgacacca tcacattcaa gaacaacgcc ggcttcccgc 180

acaacggggt gttagacgaa gacgacgtgc cgagcggcgt tgacgtcacc aagatctcac 240
aggaggagta cottaacgcg ccaggcgaga cctactaagt gacccttacc gagtcggaa 300
cctacggctt ctactgcgag ccgtatcaag gagccggaat ggtecgcaag atcacgtca 360
actaattaag ctagctatcg atcgatatcc attcatgtat taactgttgc ttctgtctt 420
gt 422

<210> 16615
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E1

<400> 16615

tgctgtcca attcgtcttc ttactctgc cagcggaagg ggagaggagg gcgagatgac 60
tgtggagaag gtggacgcg tgctttccga cttcgacgcc cacttcgac gcctcttcgc 120
tttcccgac gccgccttcg acggccaggt gaagctgctg ctctttctgg ccgaccgaa 180
gcctggctcc tccctctact ggtgccccga ctgcaacgtg gccgagccgg tgatctacga 240
gcggtggag gactggagg gcaaggactc ggtgtcctg cgcgcctacg tctgggacaa 300
gcccaattgg cgcgaccgg cgcacccgtg gaggggtggac cccaggttcg ggctc 355

<210> 16616
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-E2

<400> 16616

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taatgcctgc tgcacgtgcc ttctcttag gaaagctaataaat gaatgccctg cagtcctatc 120
aaaatgagag caagcagacc atcttcattg agtatattat gcttgatgga gttaacgac 180
aggaggagca tgcacatcag cttggtaaac tgcttgaaac gtttaaagcg gttgtaaatc 240
taataccatt caatccaatt gggatcatcaa gcaatttcaa gacaagcagt gacaaaaatg 300
tgaagaactt ccaaaaggct ttaaaaggca tctaccgcat cagaactact attcgccagc 360

agatgggtca ggacatagct ggcgcttggt gccagttggt ggtagcctc ccagatgaaa 420
gatcagctgg tggagcaact cttt 444

<210> 16617
<211> 188
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-006-Q1-K1-E4

<400> 16617

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acgtgtttgg gtgggaacag gggaccttct ccaaccttct ttaacattcg ggctcatatt 120
ccttactgcc attggttggg ggaactgccc tattaccata tttattggag gagagagttg 180
atgagaca 188

<210> 16618
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F1

<400> 16618

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ttctcaactc tcaagcacca gcaggaatcg agcgagcgag cgagcagtgt ccgtccccc 120
tgccatggt cgcgtccacc tccttcgctg accacaagcc gcgtttcgcg gtggtgtgca 180
ggaagaacag ggacggccgg gacagggagc gggacggcaa ggagcacaag cacccttca 240
aggtcgtcga gatcacgccg tctccgcggt gcctcggcgt ccgctgcttc cccaccaaca 300
tccactgcgg cgagagcgtg acgatcgagg ggcaagcgta cacggtgtcg gcggtgacgc 360
accggtacca gctgcgcaag gggcggtacg agccgagcga gaagcgctc gacgtcctct 420
tcaccggcag atacattctc aacctttacc 450

<210> 16619
<211> 442
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F11

<400> 16619

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tgattctgta attacacatg catcatgtca tacaacttta agttaaacc cctgcgtagc 120
tatttttagtg tatgaatcat ctacctgtt catacatctt tagtgaatag agtgtatctg 180
ttgcccttct cgatagatga atcaacaaga agccccctacg ggagttggag agtttctacg 240
agattttggg gttccagtgg tctgtggcg actacttcaa gaagtcggat ataccgaagc 300
accaagtac cagtggccac gcacggttct tagaggacaa ccatgggatg aggtagtagt 360
gcatattcca gaacgtgcta gaaaccatct tggccacatt ggatgttcca tgctgaagga 420
atgactcctt gggaaggtgc tc 442

<210> 16620

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F3

<400> 16620

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ggcgcgtcag cattcccttt ccgctgttc tccgcggagg cgcgccggaa cactaagagc 120
ggtcgaggca agcggagcgc cgccaagccc atcaagtcct cggccccacc tcgacctccc 180
tactcctctt tcgtcatatg cggcggcgtc gcggccacca cgttcacgcg gattccactt 240
cgcgatgcgc ctgagtgcac ccaggtcacg ctgaacgat taccaccgg cccgggcaac 300
ccggggggcgc ccgctctcac gctcgggagt gtgcaacggc tggagaacga ggagttcgat 360
gttgggtgga ggcccaactc tgtcgcgcg 389

<210> 16621

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F6

<400> 16621

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cgggtccctac tgccgccccg tcattcctcca cagctaagct aagcgagggg agggcgatta 120

atTTTTtatt gttgccatgt tatttatacc tgtgtttacg ttgccgggaa aaaagtgtcc 180

cggcagctgc atgcatgtgt tgctcttgt aacttggtat actgggtgggc tttatttaca 240

aatcaaatgg tatagatttt tcatggaaaa aaatattaag tcattttt 288

<210> 16622

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-F9

<400> 16622

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cgatccccgc ccatggatcg cgccgacccc gcgcggggcc gccttgccgt gctctcctcc 120

cacctccgtg gtgcaggggc cgaggaggcg gcggggctgg agaggtcgcc ggtatccgcg 180

ccggcgcccc ggccccgcgc cggcgcgctt gccgtgggtg acgggaggac cgggaagcgg 240

cacgaggtca aggtctccga agacggcacc gtgcgcgcca ccgacttcaa gaagattacc 300

actggaaagg acgacaagg tcttaagatt tatgatcctg gttaccttaa cactgcccct 360

gttcgctcgt ccatctgcta catcgatgga gatgagggaa tccttcgcta taggggttat 420

ccaatcgaag aattggctga aagc 444

<210> 16623

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-G11

<400> 16623

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gttccgtgta agagggttca cacaggatga tgccacata ttttgtctgg aggaccagat 120

aaaagatgaa atcagaggtg ttcttgatct aactgagcaa atacttgga aatttggttt 180

tcggtattat gagataaacc tttcaaccag accagaaaaa tctgttggca ctgatgacat 240
atgggaaaaa gcaacaattg ctttgaagaa tgcattagat gataagggtt gggaatacaa 300
ggttgatgaa ggtggaagtg ctttttatgg tccaaaaatc gatctaaaaa ttgaggatgc 360
tcttggaagg aaatggcaat gttccactgt gcaggtggat ttcaatttgc ctgaacgggtt 420
tgacattacc tatgtcgatt ca 442

<210> 16624
<211> 162
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-G2
<400> 16624

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ggggcgcgat gtggcacgag ggcgcggcgt cggagcggaa ggtccacgac ctcatggacg 120
cggcccgtcg tcgggcgcaa cgccgagccg tctaccttgc cc 162

<210> 16625
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-006-Q1-K1-G9
<400> 16625

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tctggaggtc atgcccaagc ccaaacagcg ggtgctggag gcgcagcaga gggaggaggc 120
catggagatg agcgacctgg acctgtggaa gcacgagaag ccgccaagga tctgcccctt 180
gccccgctg ctcccgcgc cgacgccagc gttcgacgaa gcggcgctcg tgccgcccgt 240
caacttcgcc gtggtcgacg acggcatctt ccgctccgga ttcccaggga ccgccaactt 300
ccggttcctc aagtcctca acctccgctc catcgtgtac ctgtgcccgg agccgtacct 360
ggggacgaac acggagtcc tagaaaagaa tgggatcagg ctgcaccagt tcggaatcga 420
tgggcgcaag gaaccatttg tcaacatacc cg 452

<210> 16626

<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H1

<400> 16626

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ggtgacgtgc tccaaggaga aggacgccga cctcttcgac gccgtgctgg gagggctggg 120
gcagttcggc atcataacgc gcgcgcggat cccgctggcg ccggcgccgg cgagggcgcg 180
ctggctgcgg ctctctaca ccggcgccgt cgacctcacg ggcgaccagg agcggctcat 240
cgtcgacgac gagcgccgcg gcggcgcgct ggccggggctc atggactacg tcgagggctc 300
cgtcgtcacc gaccttcagc agggcctcat cggcagctgg cgctcgagc cgccgacgtt 360
cttcttcgtc ttgtactcgg agtcggtgac cgacgc 396

<210> 16627
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H12

<400> 16627

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atggctgctg cggctgcgat gatggtctcc ggaggacggg cggcgctggt ggtggcgggc 120
gtgctctgcg cggtgggggc catggcggcg gcgcagcagg cgtcgaacgt gcgggcgacg 180
taccacctgt acaaccggc gcagaacggg tgggacctga accgcgtgag cgcgtactgc 240
gccacgtggg acgccgacaa gccgctgtcg tggcggcaga agcacggctg gacggacttc 300
tgcgggcccc tctggcataa gggccaggcc gtctgcggca agtgcataat ggtgaagaac 360
cgtgctacgg gcg 373

<210> 16628
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H8

<400> 16628

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<210> 16629

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-006-Q1-K1-H9

<400> 16629

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acatgcaatt cctctgcaca tggatggatt gggatgtaac ttggaactgt taattttttt 180

tactttg 187

<210> 16630

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-A1

<400> 16630

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tgtcagcggg ggcggcgggc gcgggccggc ggagactccc aggccaggag cagtctgccg 120

attggaaggg gagatgaagg ccacgctcaa gggccgctac gagggcgaca aggccacggc 180

cgccaccacc ctgcgcgcc cgcggcgga cctccgcctc aaggcctccg ccaccgaggc 240

cgccttcacc aacggtcctt cctgcgagg cctcacctc accctcgaga agcccggcgc 300

cttcctcggt gacctcaagc ccacaacca ggatgtgcgc tttcagttca tgaactccgc 360

gctcgtgctc gacaagcgcg tcagccttac ctacacttac ttactag 408

<210> 16631

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-A5

<400> 16631

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agcgcgtctg ctggctctgcc aagaggagga aaggaaggag gagcaagtag agatggcttg 120
ccctgcgcag tccatgctct ccgccagcgg ctgcatcttc ctgaggagca agcctcaggc 180
ggcatcccaa gtgcgagggg gcatcatcgg cgggtggccgc agcagcaggc cgttcctgct 240
cacctgcaac gcttcctctt ctccgtcccc ttctctgcgg gcgccggcgc aggaagaccc 300
cgactgcaac gaggaggagt gcgccccgga gaaggaggtc gggagcctga gcgccgagt 360
gctggccgag gagaggaccc aggtcgtcgg cactttccct cccaagaaga aagggtggac 420
cggcttagtg gagaaggaca ccgncggcca gaccaacatc tacttcgtcg ag 472

<210> 16632

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-A6

<400> 16632

taccggttcg gaattcccgg ccgaccacgc gtcggaaact ctgcaattta gtgacattta 60
ctttctcgac ccctctcaac ttgggggatg cagtggaagt caagaggaca gcccagagga 120
agagatgaat accaaagatg gccctaagac aagaagatc ttcacgagt gggctactgg 180
atctttactg aaggttgggt tggctatcaa caaacaatg ttgaattcat ctttttatga 240
tactgagaag gcacaaaatt catatgagat gaaggatcac tatccattgt atggcaaggt 300
gcttgaacat cagataatgc ttgatcatag cactgggcca tatagaaggt ttg 353

<210> 16633

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-C10

<400> 16633

accggtccgg attcccgggc acgctcaaac ccggcacgac gcggccatgg tgtccgtcct 60

gctgaaacac tcggaagcca aggtcttcct cgtggagtcg cagttccacg ccgtggcccg 120
cgacgcgtc aggctcctcg ccgacgcca agacaggett cctctcgtca tcacggtctc 180
tgacccacgc agcagcagca gcaccggcga cggccgcggc agcaacgacg gcagcgtcgc 240
ggtcgcggag tacgaagcgc ttctgcggag cgcgccgcgc gacttcgaaa tccggtggcc 300
ggcagacgag cgcgaccga tatcgtgaa ctacacgtcg ggcaccacgt cgaggcccaa 360
gggcgtcatc tacagccacc gcggcgcgtt cctcaacacg ctggccacgg tgctcgtcaa 420
cgagatggcg accatgcccg tgtacctctg gaccgtgect atg 463

<210> 16634

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-D1

<400> 16634

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tgagaacaca caacataatg gctgattata ggtttcttgg tcaagaaact ctaatagcat 120
tgtgccttct cctctctttt ccaccgggca tagcctccat ccattcatcc aactgaaca 180
tgagttgcat cttagaggag aaggctgcgc ttctatcaat caaggcaagc ctctggatc 240
ctaacaacta cttctacttg tcatcatggc aaggtaaga ctggtgcagc tggaaaggaa 300
tcaggtgcag caaaaaaact ggcaacgtcg tcaagctcga tcttaagcgc ataatccag 360
gaaactttgt aagtgaata agctactctt tagttaattt acgacggctg agatatct 418

<210> 16635

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E10

<400> 16635

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agctccctgc atggtgatgg aggggcgcac aggtcactc tacggccgcc tcaacaagag 120
cagcacgggg gggttcctcg cctacaccgc cgccgggggt gcctgcgcgg ctgtcctcgc 180

ctgcttcgtg ctctccgccg cggactcgcc ggcattctgcg gcgcgcaacg atggcgcgcg 240
cctccgcctg tctcgcgct caccgcgct ctggcccgcac ctgcggttca actggcgggt 300
ggtaggtcgcc accgtcgctg ggttcctcgg ttccgcggtt ggacaccgtcg gcggcgctcg 360
cggaagcggg atcttcgtgc ccatgctcaa cctcgtcgtc ggcttcgaca ccaaattcc 418

<210> 16636

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E12

<400> 16636

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ggtagcatag catgcttttg tcttttgaac tgcacatgat acacacgaca cctcaaactc 120
gaacccaag ttagtttgaa gaactcaaaa aaaaaaaaaa aaaaggcaga caatctaaaa 180
gatacaaaga taaaaaacac aagcatgcaa aaaaataaca taaaaaaaaa agaaaactaa 240
attcaattaa aaaaaagggg gggccgcttt aaaggatcca agtttaagtc cgcgggcatg 300
caacttaata gcttttctat agggcccct aaattcaatt tag 343

<210> 16637

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-E3

<400> 16637

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gccgtccgtg gaagaagatg tcgtacctgc tgccgcatct gactcgggg tgggcgggtg 120
accaggccat cctgcgcgag gaggagcgc tcgtcatcat ccgcttcggc catgactggg 180
acgagacctg catgcagatg gatgaagtgc tggcagcagt agctgagacc ataaagaact 240
ttcggtcat ctacctgtt gacatcacag aggtccctga tttcaacacc atgtatgagc 300
tgtacgacct ttcgacagt atgtttctt tccggaacaa gcacatcatg attgatctcg 360
ggactggaac caacaacaag atcaactggg ccctgaagga caagcaagag ttcacgaca 420

ttgtggagac cgtatacagg ggcgcccga aaggccgtgg tctggtg

467

<210> 16638

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-E8

<400> 16638

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aacccaatgt ggaaccagct aactgtccca gaagcgtcac tctactcatg ggattccaaa 120

tccacttaca ttcattgagcc cccttacttt aaggacatga ccatgtcccc acctggcccc 180

tctacagtga aagatgccta ctgcttgctg aacttcgggg acagcatcac tacagatcac 240

atttcacctg caggaagcat acacaaagac agtcctgctg ctaagtattt gatggagcgt 300

ggtgtggacc ggaaggactt caactcatat ggtagccgtc gtggtaatga tgaagtaatg 360

gcaaggggaa cgtttgcaaa cattaggatc gtgaacaagt ttttgaacgg agaagttgga 420

cccaagacca ttcattgttc tactggggag aagctntctg tttttgatgc ggccatgaga 480

tac 483

<210> 16639

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-007-Q1-K1-F11

<400> 16639

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cttcgtcggc ggacttgctt gggccaccag caacgagtcg ctggagaatg ccttcgcctc 120

ctacggcgag atcctcgact ccaaggatcat caccgaccgg gagacgggga ggtcccgcgg 180

cttcggcttc gttaccttct cctccgagaa ctccatgctc gacgctatcg agaacaatgaa 240

cggcaaggag ctgcagggcc gtaacatcac cgtaaccag gccagtcctc gtggcgcgcg 300

cggcggcggc ggcgggcggtg gctacggcgg cggtcgcggc ggcgggcggt atggtggcgg 360

gcgccgtgac ggcggttatg gcggcgtgg cggctacggc ggtcggcgcg aggggtggtgg 420
 cggcggctac ggaggcgggtg gcggctacgg cggtcggcgcg gaggggtgg 468

<210> 16640
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-F4
 <400> 16640

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 ccttgatggt gctattgcat tgacttatct ccatttgtgt tctggggacg ctttaatctg 120
 ttacaacttg aggacgtcaa acatcctact gacagagagc taccgagcca aagtgtgctg 180
 ttctgaactg tcaaaaagtg gtaatatcgt gctattaaag ggaacagggg gctacattga 240
 tccagagtac ttggagacct cagagctcac tgccaaatct gatgtctact cttttggaat 300
 aatacttcta gaaatcatat ctttttaatg gccacaagac ttggatgtat tgatgaaacc 360
 accggaaaac agtgtgtaca atgggctctt gaaaattcta tgacgacctc atgaatgaga 420
 ta 422

<210> 16641
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-007-Q1-K1-F6
 <400> 16641

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 ctcgattcca ttccaggatg ctgctgggcc cggcgtcaga gacgtcgggtg ctagacacca 120
 tccggcagca cctcctcgag gagccagcgg cggcggaggg gcggccggcc gacgagagct 180
 tcgggagcct ggtggcggac cagtggagcg gctcgctccc gttccgcacc gacgacgccg 240
 acgacatggt ggtgttcggg gtgctgcagg acgccttcgc ctactgctgg ctgcccagcg 300
 gtcattctt gcacgtgaag cccgateccag tgcgggtccc cgactcgtcc tactaccacc 360
 cctgctccta cgacgg 376

<210> 16642
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-F7

<400> 16642

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agccagcctc gcatgcgttg ttccggggccg gtgatggcag tgcccgcacg cgctgctcc 120
cagacgacga cggcagccac cccgcgcgcc tgctttgggg ccgcggcatg gccagagcgc 180
gtgctcgctt acccatggcg atgacgcagc ccgattccgc agcgtggcca gatcccgtag 240
tcgctgctt gcgcggcggg ggcgggccgc gcttgaccgc atctgctcga ccagcgctca 300
catgcctgct cacggcggtg gcggggacgg cctgcgcgcc tgctcgcatg ctgggcggca 360
ggggcgctcg cccgcgcgct cgcggccatg gcggtgctcg cacgtgtgct tgtctgcgac 420
agcacacgcc tgcgcgcttg gttgtggcga cgcgcgcttg cgtttcgtgc 470

<210> 16643
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G10

<400> 16643

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attgtatgcg tccgtggcgg ggcaccacag acggggggag cgtctagtgt tcctgctgac 120
cggtgctgcc aagggcgcta agagactcac acggttcgag ttctccggt gggccacgag 180
ggacgccgtt gtgcagatgc tatgcctctg ggtctttggc gatgtgcacg accaggccca 240
gctgttcaag ctctatgtgg tctccaaact catgccattc tccgcgtat 289

<210> 16644
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G2

<400> 16644

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tgtggacaaa ctcccaggac tcgccgttta ttgttgetcc caaccaccag aaaaggaagc 120

acgtcaccca tccttttttc acgttactat cggcacccgc catccaacat gtcgggcacc 180

gcgcacgact ccagactact gtacaaggctg aataatattc gagccttcca tatccaagat 240

ggcgaggagc aagagttgac gccttcgggc cctcaaattc tctcgctgtt gatggttccc 300

accgctgcgc cggcaaacgc ctccgctggt ggcacgcaga cccagagga ggatttctac 360

ttgcatctct ctattcctcc cgagctggac cttgccatcc cagctaccac ccagatcttc 420

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<210> 16645

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G3

<400> 16645

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gggatggatc tcagtggggg gggatatatt acatgcttgt gcgtccaacc gaggagaatg 120

tagttatata cgagattcat ccatactcgt agaaacatac actatataat catggcacac 180

ac 182

<210> 16646

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-G8

<400> 16646

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catcgccatc accaccag 78

<210> 16647

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H10

<400> 16647

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tgattcaaga gtattaatga tatacaaaaag tttgctttat ggcaagtcag gtaaccacaa 120
atthttgggca atgacagggg tgtgcagtgg tgggtctctta aaagaatttt gtgttccagc 180
gtagctattht ccaactgcaaa ctatcaaata attacaaact gctgggaaca tgctccatct 240
tattatcgaa gcctgtatct cgagaaagtt gatcgataca tctgcttatt tatggcctgg 300
ttatgttgta ccatctggga ctttaaaaga tacagctttg cccaagaat ccccttggtt 360
aaactttatg aaagggctct gactttcagg accccttatt gatgctctgg tcg 413

<210> 16648

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H11

<400> 16648

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cgtggtgccg ccgccgactg ctgggactgc cctacaccaa gtgcccaggt catcttcggt 120
ccattcgccg ggcagcagca ccaccaggtg tgccagggtg accgagctat ggacagcctg 180
tggcatcttg gggacgagct ccgcgggcag cccaagggtg tggaggaccg ccagtgggtc 240
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cctgacgcca agcagtggga caagacgtcc taccagcttc acgacgacag caggatgggc 360
cacatcaatc tcggcctcat gaaccttgat ctcaagatga acgaggctgc cgccatgaag 420
ctcccccttc gtggcatgcc ctataacatg aaccagatgt acctc 465

<210> 16649

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-007-Q1-K1-H2

<400> 16649

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agatattgaa tccactgaag gacaaatata tgagattaac tcagttaagg gtgaagggcc 120

cggaactgac ccagagaaat gggaggagct attcagatct gctcggtcag actagtggca 180

ttctgcaaag cgtagtaacg taatgtagga atatgcatcg taatacaatg taatccatag 240

agtgcagccc taattcaata gtcactgaac agtagcgatc atgtagagaa tatttggttt 300

gtgtacatag tatgagcatt catatatgac gattatacct cctaaaagtg atagtttttg 360

ttggaaagta aaatgttcaa tggt 384

<210> 16650

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-A3

<400> 16650

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gacctgggggt tcttgaccaa ggctaggaag tacaccttct tcaagcccaa gttcatcttc 120

tacgccacct acctgtccga gaagatcggg tactggaggt acatcaccat cttcaggcac 180

ctcaaggcga acccgagta ccagggttac cccatcttca agtacttcga gaactggtgc 240

caggacgaga acaggcacgg cgactttttc tttagactgc tcaaggctca accgcagttc 300

ctcaatgact ggaaaggcca gcttttggca acggtccttt tgctctcttg gggatgtgac 360

ccatgtaccc tgaatgactg ccaaacycac tgcatttcta tgaagggaat tgggtctggg 420

acaccaaag aatttgacat gcat 444

<210> 16651

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B10

<400> 16651

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gtacgatgtt tattattaca atatgtataa tatgccaaga ttttccactt ggacttgaca 120
acaagagtga atataaagag gcaggaaatt acatatgcat agggaaaaca gacgctgcca 180
gttcggcatt tccatccaaa actgacaaaa cgccaccatc cggaagctga ttattgoggt 240
gcactctgca ggtgagtga gagaaagccgc ctagccagtg ttctgcatgc cggcggcgat 300
gcccttcatg gtgaggatga gcgtgtcttt caggccgggc ggttactcgc 350

<210> 16652
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-008-Q1-K1-B2

<400> 16652

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ttctctctcc tgtctccat ctccccaatt cgcacggcca tcggaccatg gattccggcg 120
tgcctgcctc tgcgcctgcc cctcccaaac acaagacatg ccggaagtgc aaggcgagct 180
atgacccctc ggccaacacg cgcctctctc gcaggttcca cccttcttc ttctgtctgcc 240
gccgccacga cgaccagaag aggtactacg agctccgcga cggcgatcct ccctacgccg 300
ccaagttcta cgactgctgc ggcgcgagg accccgacgc tccgggctgc accactgact 360
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tcttaattct 429

<210> 16653
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-B7

<400> 16653

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gctgatagaa acacagctga cagctcgagg acattgctat cattcaaacy caagttgagt 180
gagaggggac cagagctgg taagcaactt ccgcagaggc caactattgc tgcagagaaa 240

ttagaagatg aagacaagaa gacaactgat aagaagataa ctatgcaaca gagagaaatg 300
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 aaaggata 368

<210> 16654
 <211> 306
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-C5
 <400> 16654

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 gaaccacgca tgagttcacc ataaggtagc cagagacaaa acacagtaat acttcttgat 180
 attggtttat gcagttcaca ttccatttca tcttctactg ggaaggaatg ggctgcatct 240
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 gcacca 306

<210> 16655
 <211> 465
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-008-Q1-K1-D10
 <400> 16655

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 tttccccacc agcccttagt ggcgatctgg gaactttcat ggctgggtg gatgatgtta 180
 gaaagctcaa ggtcctggct aacgccgata cccctgatga tgcattgact gcgcgaaaca 240
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 ggattaaagc tggcatgcag atgattatgg ctcccacgct tgagctgagg cagcaggcgc 360
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 gactcccggt gaccatctca ctctggacc ctcccttca cgagt 465

<210> 16656
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-D6

 <400> 16656

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 gcgcagagggc ggcggagcga tgcagcgggg ggccgggagc ccgtggtacg gaccggaccg 120
 cttgctgacc tggggccagt gtgcggaaag cgatcgagct acctgacggg cgagttactg 180
 gtcgactact gctgggacac cgggggggttg tgttt 215

<210> 16657
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-D8

 <400> 16657

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 ggtagcttga cgtctgatga acgctcagcc atgctgctga tgctacacga aactcttcct 180
 ttcgtgaggc cgacgagttc ttgccgggac ccaaaactct ccgagaagag tgctctgct 240
 tttcacggta aattgggatg cagtgcggtc tgcagttcat cggaaggcca tcgtgtacag 300
 aagccacaca ttgttcacag cttcaaagta agctttacta ggaccagtca ttcatttgtg 360
 taaaagctta 370

<210> 16658
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-E1

 <400> 16658

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 gacgagcagc tgggcggaag ccagctcgac atcggagggc tcgccttcca gggcgacgtg 300
 ggcgggggct tcaccggcgg cgggtgcgggc tccggggcct tcggcggtgg cggcggaac 360
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 acccagc 427

<210> 16659
 <211> 486
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-E10

 <400> 16659

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 tgccatcaac ctccctccaa atcagggttcg cagatggcag tcgcttggtt gcccgtttca 180
 acacaagcca caggattagt gacgtgcggg catttatcga cgcgacaagg ccaggagcca 240
 gtgattacac gctgcaggcc gggttccccc caaagccgct tgaagacacg gccaaagacca 300
 tcgaggaagc cggcgtggcc aactcggtaa tcattcagtc agtctagctt ggcagaacag 360
 gtgccgcaac cctattccat ggaacacgct aggcattctga agctaccacc ttccttgatc 420
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 tttggg 486

<210> 16660
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-008-Q1-K1-E4

 <400> 16660

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agttgctttt tctgctgggc tgcacggatg ggccttcacc ctactaact tcgcaaagat 180
gtatgcatct aagtttggag ttgatgaaac taagatgatg gagaggctat ggggtgagaa 240
cttctttgac cctgccacaa agaagtggac caccaagaac acaggttctc ctacctgcaa 300
gagaggattt gttcagttct gctatgagcc aatcaagcaa atcatcaaga cctgcatgaa 360
tgaccagaag gagaaattgt ggcccatgct gcaaaagctc aatgttacca tgaaggctga 420
tgagaaggag ttgattggca aaact 445

<210> 16661
<211> 215
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-F3
<400> 16661

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aagaaaacat gtgttcgtga tccgtggagt cgtcgtctgc ggcgtcggcg ggcaagagcg 180
tgtgctgat ggactgccgc ggggccgctg ggcca 215

<210> 16662
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-008-Q1-K1-F8
<400> 16662

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aaactatttc aaagaagggg atgcttgaag tgtataactc cttgactgaa gaaggaaaga 180
agcagtttat tgaggcctat agtgcagcat attacccatg catggacata ttgtatgagt 240
gctatgaaga cgtctcttct ggaagttaga ttagaagtgt ggtgttggct gggaggagat 300
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386

<210> 16663

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-008-Q1-K1-H7

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cctcagaacc gaacatgtta atgactcgtc aaagggtggag tttttacaag aaataattat 180

tctaaagagt gttaatcatg ataatgttgt tcgattctac ggggcatgca caaagcagag 240

aaaatatgtc atcgtgacag agtatatgcc tggagggaat ctgtatgatt ttcttcacac 300

gctaaaaaat actttggatc tcccaacggt tctcaggatt gctatcggca tctccaaggg 360

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<210> 16664

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-A4

<400> 16664

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aactaagggtt ggcgtcatca tgtct 85

<210> 16665

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-B9

<400> 16665

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atactgcttc aaaaagcaga ttcgggcttc gttgtgtacg aaaagaacgg aggggtgtttt 120
 tcaccttcgg ctcaaaaaat acaagtttcg tccacatcaa agcatttcat acatcgatgg 180
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<210> 16666
 <211> 285
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-009-Q1-K1-C1
 <400> 16666

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 cgctgcccgc cagcgggtgag atgtggaagg gagagggtag aaataaacta ggccaagat 180
 cgatgaggta cagcgacgaa aaatgagagt gcaagagaga taggggactc ggaggtcgtg 240
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<210> 16667
 <211> 326
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-009-Q1-K1-E2
 <400> 16667

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 aagcatgaaa gatcgatcga gcacctcgct acgagttact tactgcaact aacctactcc 180
 ggccgacacg gcacgaaggc gccggagccg aatgctaaca aagaggatgc taggtgtcct 240
 acccgtaggg ggaggagagg ctggtcacgg gcaccgtcga tcgatctgcg actgcgatca 300
 accgctgtag gtgtgagggg gatgca 326

<210> 16668
 <211> 241
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-G10

<400> 16668

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gatggcatat tataggaagc tgcaaaagct ctatctgagc ttattcctgc aactgaaaag 180

cttaaagttc ttcactttca caacaatatt actggagatg aagggtgctat atatattgct 240

g 241

<210> 16669

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-009-Q1-K1-G2

<400> 16669

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aggtctaaca cacattggca gcgaggtata ctgcattcac atgtggggcg catgagagag 120

ctgtgcagac acgcgcattc cacgatgacg cttcacacct gcatacacat cacgttgaag 180

agcgcatttc tccaggacga cgcca 205

<210> 16670

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-009-Q1-K1-H10

<400> 16670

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tcttggcgat tctgtactg gtttttattt ttattttgct agttcttgaa atttctttca 180

cgagtgtcag tagccaactg ctgataacaa catcctatcg ttctgtagc ccctttccgt 240

gaccttgcca aagaatttgc tcttctctgt gcgtgtgcaa tttcttccgc tacagctcaa 300

ggatccgcta ctctgctgtt ttgggagatt cgccatgggc ggcgngccg ttaacgacca 360
 cttcccggng gccagcgacc cgctgctccc cacgaagcgg gatggggacg gggacgagga 420
 cgacgcaggt gccttcgcgt tccacgagtt 450

<210> 16671
 <211> 429
 <212> DNA
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 <223> Clone ID: LIB3060-009-Q1-K1-H9
 <400> 16671

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 ggtgaggctg ctgagcgtga ggtgcgagca gggagccaag ggcggtggcg ggctggacgt 180
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<210> 16672
 <211> 190
 <212> DNA
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 <223> Clone ID: LIB3060-010-Q1-K1-A3
 <400> 16672

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 gcgcgaggcg gccgacgcga gcgcccgcga gcgcaaggcg ggggactgcg gccagggtccc 180
 cgacgccacc 190

<210> 16673
 <211> 119

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-A9
 <400> 16673
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 aatccggtat gcacttacta tgggggggag cacaatcaac acaagatctg attctctat 119

<210> 16674
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-B6
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 gcttcaagaa atggcattac taccttctgg acttctgcta ctatgccaac acctttctcc 360
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 cagagggtac gtttgcttgg gcattaatt 449

<210> 16675
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-010-Q1-K1-B7
 <400> 16675
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<210> 16676

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F12

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<210> 16677

<211> 135

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-F5

<400> 16677

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 atagagatgt cggtta 135

<210> 16678

<211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-010-Q1-K1-G10

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 gaagcgactc cagtccctgt atgaggcaag ctactatttg actaagagat tattcaatgg 240
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 <211> 469
 <212> DNA
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 <223> Clone ID: LIB3060-010-Q1-K1-G11

 <400> 16679

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 cctgccgcc tgcggggcg aggggctgac cctgttctac aaccggcgcg cgacgaagat 420
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<210> 16680
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G12

<400> 16680

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gctggagccg tcctcgtagt cacctgcagg cggagctcct acgcgaccgt ccgcgccgca 240
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<210> 16681

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-010-Q1-K1-G8

<400> 16681

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<210> 16682

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-A5

<400> 16682

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<210> 16683
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-011-Q1-K1-B3

<400> 16683

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caggggagcg agaggaggaa ggcagccgag caggagcatc gcagtgggtg ttaagcagca 360
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<210> 16684
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<223> Clone ID: LIB3060-011-Q1-K1-C11

<400> 16684

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tcctattaat tcttcgaact gtataaacca ttgatcttca ctaatcctct ttatataacc 240
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<210> 16685
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C3

<400> 16685

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gaagaggagg cagcgcgctc tccgtccgcc atggcgggct cttccgaccc cgacaagctc 180
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agcgtacct ccttgtatga gcaagctgca attgcgtata ggttcagaaa ggacaatgag 300
aaagcaaaag atgcttttga gaaggcctca aaaggacagg aaatgatctc ctcacatgg 360
gacgtgcta agcatatgga atctgctgct gctttagcaa aggagcttgg gcgctggaat 420
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<210> 16686

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C5

<400> 16686

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ggctgggcag gaagtagtca gcgctgttgg ggaggatagt atcccggaag ctgccgcctg 180
cagcagggag gagaggaagg aggaagagga ggaagaagtg gaggtgagct tcgatgaact 240
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gatacagcgg gaagccatcc cgctcatcct ggaaggggaag gatgtggttg caaaggccaa 360
gactggctct gggaagacct ttgcctatct tctcccactt ctgcacgagc tactgaagtt 420
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<210> 16687

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-C6

<400> 16687

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gctgggcagg aagtagtcag cgctgttggg gaggatagta tcccgaagc tgccgcctgc 180
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actggctctg ggaagacctt tgcctatctt cttccacttc tgcacgagct actgaagttg 420
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<210> 16688

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-D7

<400> 16688

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aagccccgac gggcagaagc ggtacgtgtg ctacttctac aaccgggatg tgggcaacta 180
ctactacggg cagggccatc cgatgaagcc gcaccggatt cggatgacgc actcgatgct 240
ggcgcgctac ggcctgctca accagatgca ggtgtaccgc cccaaccggg cccgcgaccg 300
cgacctttgc cgcttcacg ccgacgacta catcaacttc ctgcgctccg tcacgcccga 360
aacgcagcac gaccagatc 379

<210> 16689

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-G2

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tagatggagg aatgatgtca ttcttgggtca aatcaaaaac tgaagattct gtgaaatgtg 180
aagttattga cgggtggtgaa ttgaaatcta ggcgccatct gaatgttcgt ggaaagagtg 240
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aagttgatta ctatgctggt tcttttgtga aagatgctca agttgtccac gaactcaagg 360
attatctaaa aagttgcaat gctgacatac atggatcgt aaaaatagaa agtgcagact 420
ccatcccaaa cttacatttc atcatcacag catctga 457

<210> 16690

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H1

<400> 16690

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agaggaggca gcgcgctctc cgtccgccat ggcgggctct tccgaccccg acaagctcat 180
gagcaaagcc gacaaactaa caaaattgag ttttacaaga tggaatgctg attggaaaag 240
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cgctgctaag catatggaat ctgctgctgc tttagcaaag gagcttgggc gctggaatga 420
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<210> 16691

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-011-Q1-K1-H2

<400> 16691

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gctcaagctg caagtgcggc aagaagtacc ctgacctgga ggagacgagc accgccgcgc 180
aggccacogt cgtcctcggc gtggccccgg agaagaaggc cgcgcccag ttcgtcgagg 240
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accctgcaa ctgctgatca catcgatcga cgaccatgga tatgattatt atctatctag 360
cttgtggtgg tggttgaaca ataataagcg aggccgagct ggctgccata cataggtatt 420
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<210> 16692

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A11

<400> 16692

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ggccacgtcg tcacgcgcat gcgcgggttc gacggggccac ttccgttcta cctcgaaacc 180
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gaatttccca ctcttctcta ccgaccggag acatggacca aggtgagcaa catcatatct 420
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<210> 16693

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-A7

<400> 16693

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gatgccctcg cgcgaattga aaagctttca gagagtaaac ccgatgcttg gcttccgtgg 120
gtgcaggctt ggtatatcgt accctgaatt gacagagatg caagcccggg ccatttttga 180

agctgctata gcaatgacca accaggggtgt tcaagtgttc ccagagataa tggttcctct 240
 tgttgaaca ccacaggaac tggggcatca agtgactctt atccgccaag ttgctgagaa 300
 agtgttcgcc aatgtgggtca agactatcgg gtacaaagtt ggaacaatga ttgatatccc 360
 cagggcagct ctgggtggctg atgagatagc ggatcaggct gaattcttct ccttcggaac 420
 gaacgacctg acccagatga cctttgggtt 450

<210> 16694
 <211> 478
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-012-Q1-K1-B9

<400> 16694

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 ccgccgcaag gagggcacgt cctcgtcgcg gctgaaggcg cgcaaggacc ggaggtcccg 180
 ccacaagcgc cgccgccacg agcggggagcg gcggcggtcc gcgtccgacg acgacagcta 240
 cagcacaagc tcttatgaca gtgaccgtga ggtgtctggc agatctcgga aacataagaa 300
 gagcagcaga tcaagaaagt ttagggagag ggagcggagc aaagatagac atcatagacg 360
 agacaagagt aaacacatag aggtaaattt cctatttatt cagaaactac taaactntta 420
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<210> 16695
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-C7

<400> 16695

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 tgacgactca gtaagtcaac agtgtgcggc ttaatgctca agctgggctc catgtgtcta 180
 gcgcactcgt ctgtctgtcg tttgcttgtc catggcttgg cactcactta gctgtccggc 240

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266

<210> 16696

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-C9

<400> 16696

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aggaaaagat cttagcaatt gactaccggg aaaagaagac cctggtgacg taaccggaac 120

ccatagtcgg cttgcgacta tcgcgtaaata tagacagggt aagcaaattt attattcggc 180

gagtggatta atgaatgatc taactagggtc tataatgaat tgggtcacaa taaatgtagt 240

aatttactaa tttagcatgc ctatattgtg ataatcgatt taggtaaatc ggtaaataca 300

gtaattaaga tacatagtta aagagttaat aaaaagctag gattaaaata gatctagtgt 360

aatatgtcaa ttnggtaatg gatgtagtcg atgccctgct gtgaatccat gnatgcttaa 420

ttttggttta aggttc 436

<210> 16697

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-012-Q1-K1-D9

<400> 16697

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ctgatccggc aggtgggtcc cgggtggagat gacaacgatc tggagctgaa cgcggagtcc 180

catttctga gtttcgtgca gcggttcggc aagtcctaca aggacgccga cgagcacgcg 240

taccggctgt ccgttttcaa ggccaacctg cgccgcgcgc gccggcacca gctgctggac 300

ccgtcggcgg agcacggcgt cactaagttc tccgacctca cgccggcaga gttccgcgcg 360

acctacctcg gctccgcaa gtcccggcgc gctctcctca gagaactcgg ngagtcggcg 420

cacgaggcgc ccgtgctccc caccgatggc ctccccga 458

<210> 16698

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<212> DNA

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<400> 16698

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gttcagctca gtagccgtat accagggaca gaggagagaa atcactggat tgcgtgacaa 120

agaagcgtag tccaatatga cacctgccag ccaagcactc gacaaattcc ctgaatcgga 180

gaaccattac cgatctcgtg tattcgagtc agctattgga atggctcgaa gcgctcaatg 240

tggaagaatg gaattagatg aagaagaaag agagggtcag cgcgatgctc actaggtgct 300

caataaattg cgagtcacgg gactctcgct gact 334

<210> 16699

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-E5

<400> 16699

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gcagctggcc gtgcagtga ccgcgcagca ggggcgggac aggcgcgcga tgggtggctgt 120

cgctgacgcg ctgcacaagc tgcaggggct caaggacatg gccgtcaccg tcggcctctg 180

gcccgccacc gcgcccgctc ccggggcgga cgcctctcc gccaatcc gcgcggaggt 240

caagggcgcc gccggcgag ggctcgccgc gaggagcgcg tctccaagc tgccttagta 300

atcttgacgg ctggaccacc tgcgtgccac gtcgtacatg tctcctagct agctcgtgtg 360

taccccggtg gtaggaatcg tcttgtgtgt tttgtgccac gtcgtcggtg tgtgtatata 420

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<211> 181

<212> DNA
 <213> Zea mays
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 t 181

<210> 16701
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-G1
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 tacttgcttt caatgaagaa tgggaattgg gggccatcaa tggattgggt aagt 354

<210> 16702
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-012-Q1-K1-G10
 <400> 16702
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acctgaccag gccgcttctg cccgtgcacg actacaggcc tgcgggacgc tgctcttgct 300
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<210> 16703

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-012-Q1-K1-H9

<400> 16703

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cagcgcgcgc gtccagaagg gcctcgtcgt gcgcgacgcg ggccggcgccg gcatggtgct 180
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cgcggttctc gtcgcggcgg cccaacatg gtgacgccgg agatccttga gccggacatg 420
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<210> 16704

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A10

<400> 16704

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tcacccttgg agtgaagcag atgatttgct gctgcaacaa gatggatgca accactccca 360
aatactccaa ggcacgttat gaagagattg tgaaggaagt ctcatcctac ctcaagaaag 420

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437

<210> 16705

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-A3

<400> 16705

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gtccaagacg aagatatcgg aagtgatgac atctccagct atcacactat cgtctgacaa 180
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atatgtagat gtgccggggc atgggtgttc tgagtagcag caaagagatc taccatgtat 420
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<210> 16706

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-A5

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accatgtncacacccgtgct gg 382

<210> 16707
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-B12

 <400> 16707

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 tggatcggtta agagagggtta gccatataca taggagtact ggatagtata caagaacggt 180
 agatacaggg caggggacat gatgctggga aagagatctg ggcgcccgtc gccggcgctcg 240
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 gacgtcgcgaggaggaggga ggacgaggag ctgcagcttc tgccggcgca cgccgaggcc 360
 gcaggggagg cggccgagca ggaggacccc tacgggtggg ccatcggcgg cgccgcggcg 420
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<210> 16708
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-013-Q1-K1-B3

 <400> 16708

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 cagccccgtg cagggccagg cgggcgcgt cgggcgcgnc ggcctcgctg ccatcctcag 360
 cgtctgcctc accatgtacg gcgtgcctt cttcaacgag ggcgaccgg 409

<210> 16709
 <211> 426

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-C10

 <400> 16709

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 ttctgggctc ctcttggtgt ttctcggcga atcggcgtgg atcgggactc ccggctggag 180
 aatcttccgt ctgtttcggc aactgtttgg atcattctac gtggcgattg catgccatca 240
 ccttccttga agtgaaaaat atatgggctg atcttggcat ttcattggag gttttgaaga 300
 tgatgaacct ccctcaaaac gcgcgatgagc atctcagta gaatctgcaa gtttaccaga 360
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<210> 16710
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-C7

 <400> 16710

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 gttgcaccag ccactccgct tttttttgct cgaacgatcg actgctcgtc gcgtcgggcc 180
 acggccggtc gtcagtttgg gtgtgtccac tccactgtaa agctcctcct cttgtttttt 240
 tgggtactcc ctgcatgcca aagttagcgg acgtgtacta ggtgtgggtc ggagcagcag 300
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<210> 16711
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-013-Q1-K1-D1

 <400> 16711

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catttatttc ttgggcataa aatcacaagg catttccccg caggaaaaac aattaccgga 120
ttattccctg cccacttgac aaaaacccca accgaaacca cgggaccggg gataaaatgt 180
ccatgggggac ccccggaac ttgaaaaggt cggcctccccg gttaaaccgc tggtttagca 240
tccacttttt taaagggggg aaaaagaatc ccctt 275

<210> 16712
<211> 474
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-013-Q1-K1-D3

<400> 16712

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gtgatgacca ttggcattgc actaatcagt tggcttggtc ttccatacac tttcactatt 180
ttcaactttg gaggccagaa gacagtgcaa agctggcaat tgttcttggtg tgtggcggtt 240
ggctctctggg ctggcctagt cattggtttt gttactgagt actacacaag caatgcctac 300
agccctgtac aagatgttgc tgattcctgc agaactggag cagctactaa tgtcattttt 360
gggcttgctt tgggttacaa atcagtcatt atcccaattn ttgctattgc gtttagtatc 420
ttctcagct tcagccttgc tgccatgtat gngtgtgctg tggctgctct tgga 474

<210> 16713
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-D6

<400> 16713

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ctgccagcca gcttgccgtg gggcccaccg tgatgatggc ctgctgggca accgccgtcg 120
ccccgttcca ggggtctcaag tccgccgcca gctccccgt cggccgcgcgc agcaccagga 180

gcctcggcaa cgtcagcaac ggcggaagga tccggtgcat gcaagtgtgg ccggcctacg 240
gcaacaagaa gttcgagacg ctgtcgtacc tgccgacggt gtcgacggac gacctgctga 300
agcaggtgga ctacctgctg cgcaacggct ggataccctg cctcgagtgc agcaagctcg 360
ggttcgtgta ccgcgagaac 380

<210> 16714
<211> 157
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-E10
<400> 16714

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agggcaatga ccgttcactt tcgtcatcgt atttgtttcc ggtccacttg cctaaacttt 120
tgtaatcttt gttggcttgg ccttttcgaa tataatcc 157

<210> 16715
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-013-Q1-K1-F12
<400> 16715

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tccgaatcga cttcttatcg caactgttgc cttcatcata ctctcgatca taaaccatat 180
ataccatcat ggtagaagc atggcctcaa cgctactcat atttcttata aggcattgctt 240
ctcttgtaa gccactctca caagcaggca atttcataat tgcacggcac attcatgatc 300
tacagcttga tcacggtcac aatctgtttc cagatcaata actcaggctc ccatacacgt 360
cactacaggc ataccgtcct gtcttggtcc tgaaaacatc tcaccttgac aagattccgc 420
tcctt 425

<210> 16716
<211> 268
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-G4

<400> 16716

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gttaggttta tttttatatt tatcagcagc tgaagttcag taaacaagct tggactaaac 180

ttgtcaactt tggtgcccat cccacaaact caattcggtg cctgttacct taccctaaac 240

tacctgagag gtttatgtta caattaan 268

<210> 16717

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-013-Q1-K1-H1

<400> 16717

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ccctccctgg caccaccctt cacagggcat cagcctctcc aatcagacgc gagccaccca 120

ccgcgcgacc tcagggtgcc tgtgctgtct ctcgctgttc ctctctcatg gccaccgctt 180

gccacctcgc cgcgccgctc ggcctcgccc cgttgccccg cggctgcgcc tctgctggcg 240

tcgtggcgtt cgtccggtgc gctcggctgt caagctccaa gatcccgaga ggcgttgctg 300

tcagggcgac gtccggcggc gagggcgcca cg 332

<210> 16718

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-013-Q1-K1-H10

<400> 16718

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tttaggcgat tctcagctcg cttttgtttc gggtagacaga ttctgtgtgc tgcggacggg 120

atgtcaagcc ctctcgaccg atttgctagg ccatgctttg aagggtttgt acataacgat 180
gaaaggaaag agagcagatc tgatgcagac aactcagaag gatataagaa cactaagatt 240
gggtctttca atataaaagc aattaatgcg gagaacaaat tcaggcattc cttgataagg 300
agaagcacta ctaagaccga aaggctggat tccatcaatg acataaggga cgttaa 356

<210> 16719

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-014-Q1-K1-A1

<400> 16719

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acacctacgc cgacaccgac gcgcgatcgg ggcgccggct cgcggggctg cctgcgcgta 120
cgagctctcc aaggaccccg ccgtgagcat cgccatcgtg gagcagtcgg tgtcgccggg 180
cgggggcgcg tggctgggcg ggcagctggt ctcggccatg gtggtgcgca agccggcgca 240
cctgttctctg gacgagctgg gcgtggcgta cgacgaggcc gaggactacg tggatcatcaa 300
gcacgccgcg ctcttcacgt ccacggatcat gagcctgctc ctggcgcgcc ccaacgtgaa 360
gctgttcaac gccgtggcgg tggaggacct catcgtcagg ggagggcgcg tcggcgcgct 420
cgtcaccaac tgggcgctcg tgtccatgaa ccacg 455

<210> 16720

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-A10

<400> 16720

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tcctccgctc tcctccggag gactaggagg gccgcctcat ccgtcaccgc caggctgcc 120
gccgtcgccc gccgtcgccc gcagctctc gtgcgtgcct ccgccaagga gatcgctttt 180
gaccagggtc ccagagccgc cttcaggcc ggcgtcgaga agctcgccgc cgcggtcggc 240
gtcaccctcg gaccagagg aaggaatgtt gtcttgatg agtttggaac ccccaaagt 300

gtcaatgatg gagttaccat tgcccgcgct attgagcttg ctgatcccat ggagaatgct 360
 ggtgcttcct tgattcgtga agttgctagc aagacgaatg actcggctgg tgatggaacc 420
 acaactgcct ctgttctcgc tagggagatc atcaaattg 459

<210> 16721
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-A11
 <400> 16721

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 gaggaagatg gcgtctaaga ggatccaggg ggagctcaag gatcttcaga aggaccctgc 120
 cacctgggtgc agtgcaggtc ctgttggtga agatatattc cactggcagg caacaataat 180
 ggggtccatct gatagcccat attctggagg agttttccta gatacaatcc attgtcctcc 240
 cgattatcct ttcaaaccac caaagggtggc attccgcacc aagggtgttc atccaaacat 300
 caacagctgc gggagcatct gccttgacat cctgaaggac cagtggagcc acgcgctaac 360
 catctgcaag gtgctgctgt ccatctgctc cctgctgacc gatccgaacc ccgacgatcc 420
 tctgggtccgc gagatagcgc acatgtacaa gacggacc 458

<210> 16722
 <211> 64
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-B10
 <400> 16722

ggaattccgc tcgacccacg cgtgcttgac acatatatat agattaattt acatgcaacg 60
 cacc 64

<210> 16723
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-B2

<400> 16723

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accaccggcg atgtccaggt cggcttcgca gggcggcagc cacaagccgg cgctccggag 120

gcccgtcttc accaaggctcg accagctcag gccgggcacc aacgggcaca ccctcaccgt 180

caaggctcgtc agcgccaccc ccgtgcctgg gcgcgcgcgc ccatgcgcac ccgccgccgc 240

cccatcccgc gcgccgcgca tcgccgagtg cctcatctgg gacgagaccg gcgccatcgt 300

cttcaccgcc cgcaacgacc aagttgactt gctgaagccc aatgcgacag tgatcttgcg 360

caatgccaaa atagacatgt ttaaaggatc aatgaagctt gcagtggaca agtggggctcg 420

gattgaagct gt 432

<210> 16724

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-B6

<400> 16724

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aaggttaggt aggctaaacg ggccggccaa agctaacgtc ctggtgctgc cgatgccatg 120

ccagggccat gtgacgccgc tgatggagct ctcccacctc ctggtcgacc aaggcttcga 180

ggtcaccttc gtcaacaccg acgtggaccg cgcggccgtg gtagccgcgc tggaggcctc 240

cggcggcggc ggcggcgtgg cggcgctggg cggcggcatc cacctggcgt ccatcccga 300

cgggctggcc gacgacgagg accgcaagga catcagcaag ctgctcgacg cctacacgcg 360

ccacatgcct ggctacctgg aacg 384

<210> 16725

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C10

<400> 16725

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ggagcttcga ggcggcccg gcggggcggt catccgggcg gactgagcca atggcacggg 120
 cccttgggcg gcgaacgctc taacagttgt cgtcgcgggc ggctagcaaa ctgcccgtat 180
 gctagcttgt attctgactt ataggcattc agtcataatc cggcacactg tagcttcgcg 240
 ccactgggctt ttcaaccaag ctgatgacc aattgctga atcaacgatt cctctcgtag 300
 tatgttgaat tactatctcg gagcagtcac tactacctta aaactaacct gtctgacgac 360
 agtatagacc catgtcacgt tccctattgg agggcgaaca atccaacact ggacgaattc 420
 t 421

<210> 16726
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-C2
 <400> 16726

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 tgccatgttc tccatgtacg gctttgggca ggaggccatt tgcaacgtac aaggctcgat 120
 ggatataccta atcgactaca tatcacattc tgtgagccac aacgccttgt acatactcta 180
 agaactttgt ccgcggtaac taattcactg accaaatcca ctcatgtgta ctactatcac 240
 atccatcaat tgtgtcctac ctctgtaaca tgaacattga cttatatctt gtactttact 300
 taatcatatc gatctatcct attaatatca ccatccagac ttacttcatt accaatctgc 360
 tcttaacaat tactggaatc ctctaccttg tttaagaggt atatatgcca taagctcata 420
 cgaatgtctc ctgatcaacg gataaatcta ctta 454

<210> 16727
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-C3
 <400> 16727

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acacaccccc tctccagctc cgttggagcg tccggacagc agcaggcgcg gggcggtcac 120
 gtagtaagca gctctcggtt ccctctcccc ttgctccata tgatcgtgca acccatcgag 180
 ctacgcgcgt ggactgcctt ccctgggtcg gcgcaggagg ggatcggaag gatggcggcg 240
 tcggtttcca gggccatctg cgttcagaag ccggggtcaa aatgcaccag ggacagggaa 300
 ggcacctcct tcgcccgcg atcggtcgca gcgccgaggc ccccgcacgc caaagccgcc 360
 ggcgtcatcc gctccgactc cggcgcggga cggggccagc attgctcgcc gctganggcc 420
 gtcgttgacg ccgcgccgat 440

<210> 16728

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C4

<400> 16728

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 gctgccatcc atgagtcttg tggcaaaggg tgtgcttccc ttctcagcac gtacctcgag 120
 tgggtgcaca caaaggccgg tgtcagtgac tgcttccttg gagcacaaaa ccagcgatgc 180
 cagaaggaag ttctctaaaac ttgcgcttgg gaaccttgga gttggactgc ccaccttggt 240
 gggcgctaag aaagctctcg ctgatgagca aggcgtctcg tcctcgagga tgtcttattc 300
 gaggttcctt gagtatcttg acaaggatag agtgaagaag gttgatttgt ttgagaatgg 360
 gacaattgct attgtggagg ccatttctcc tgagcttggg aaccgcgtgc aaagagtccg 420
 tgtgcagctt cctgggtctaa gccaggagct tcttcaaaag ttga 464

<210> 16729

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-C6

<400> 16729

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 cctctctcca gctccgttcg agcgcctagc agcatcatgc gcggggcggt cacgtagtaa 120

gcaactctcg gctccctctc cccttgetcc atatgatcgc gcaacccatc aagctacacg 180
 cgtggactgc ctccctcgcg tcggaacatt acgggatcgc aaggatgcct gcgtcgggtct 240
 acaaagccat ctgcttaca aaaccgcgct caaaacgcac caatgacaga gaagcgacct 300
 ccttcgcccc cgatcggac tcaacgcga ggccccaca cgccaa 346

<210> 16730

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D11

<400> 16730

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 acactccgac gccgacgca aatcgagagg agcaccaagc tcaaaaaagc gccgcccggc 120
 gccgatgttg ctgcggcgga tgcgatggat gtcggagggg gacggccggt gggagctgga 180
 tgcggagacc ccggtgacga tggagggcac ggcgcgcccc gtcccgggg accccctgcc 240
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 gttcatggcg tccctcttg taccacctt ctccgccatg cgcgacggcc tctccgtcaa 360
 ccacgccac attttctaca tgacagacaa ctggtcttct accatcttgg agaaaatcaa 420
 tgttaagaag cttgtgtctg tcgtgaaaga gaaa 454

<210> 16731

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-014-Q1-K1-D3

<400> 16731

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 cggttaagtt atctggtgca catgcatagc cgtccgaggt ctttgagaca aggacaggtg 180
 catgtgggcc caataacttg ggaggttctg ccacagcagg gagcaggcgc aaggatcctc 240
 ttactgcac atggaggcga gcacctcaga tatgccctac agttgttatt tccagccttt 300

aacaatgcaa cagaatatga agctctgatt catggactga acattgctat atcactgggc 360
atcaagagac tgatggtata tggagattct ttggtagtca taagtcagat aaacaaagaa 420
tgggattggt caagcgattc catgggaaaa t 451

<210> 16732
<211> 372
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-014-Q1-K1-E8
<400> 16732

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cgaaaaaagg aaaggaggag ggaaggatt ccatgggaac atttatgagt tggatggagt 120
ttccgttact ggaccaacca ggttccaatt ccgttatttc aactacactt aaacgaactt 180
ttaaaatggg tcaagactct caagtttatg ggcccttcta tatgggacca agttgtggtt 240
cattggattt ggttcattaa tagggtcacg attcgacttt gatcggtatg gattggtacc 300
aagatcaagt cctagacaag cggaccttat tttaaccact tgtacggtaa caatgaaaat 360
ggctccatct tt 372

<210> 16733
<211> 313
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-014-Q1-K1-F11
<400> 16733

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ctagcatcta tactgcactc cggtgaggag gcggaagggtg cccggtggag tctaagtgca 120
ttgtaagcct gactctttga caagtcaacg gcaccgggtg ctcatcagat atgtgcgctc 180
tacagctgct atacacacat cacgttcttc accgtacata ccaaacttgt gccttccaac 240
gacactgggc gccagaactg acgacctgct agagtggagt tctgccactg atcgattgaa 300
gacgactggt atc 313

<210> 16734

<211> 455
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-F3

<400> 16734

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 gctcctgctc gtcgacgtta gattttccca gacgcgcgag ctccccagca actccaacac 180
 gttgctcgcc tcgctcagtc ttcaagccat cgtgtcgtg gttctagcca aagtcgggcg 240
 cgttctttcc ttccgaggc agcgccctca gtcgtcggtt cttttccacg gctgcacgct 300
 caccgactca agcgctnggc catggagctc agtttcgtgt gtgcctgtgc tngtgcgccg 360
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<210> 16735
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-014-Q1-K1-H1

<400> 16735

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 taccggtcga gtttttcct cctctctggc cggcggttctg cctcaggctt gccaggcta 180
 tccctectat cgacggatct gtggctgccg taccctgct cttccaacg ccgcgccttg 240
 cttggttcca tggccggagt tccaccatc cgcgcgattc tccctgccc tgcgtcggtc 300
 gccatctcc ctggagtttc tgcccgtgcc gtgcctcttt actgtgctca cccaagttgt 360
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 tgatgggtcg ggt 433

<210> 16736
 <211> 446

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-014-Q1-K1-H3
 <400> 16736

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 tacgactacg atccgcgcgc atcgagggcg atgagtgaca ccggctcgag cttcgcgcag 120
 tgggcccgcgc tctaccacca ccacgacccc gccggcggcc cggctcctgcc cgacgacgac 180
 gcggcgggacg ctggcaacgg catcggcagc ggcaccgtca ccgtcgcgag cccgacgtcg 240
 ggaggggtcca gcggcgggag cccaccacc aaggcagcgt gggggcagca gcatctgctt 300
 cacgggggtgg aggggccccg ggtcgccggg aagccggcgg cggcgcggcg gcggtcccg 360
 gcgtcgcggc gggcgccgt gacgtgctc aacacggacg ccgncaactt tcgcgccatg 420
 gtgcagcaat tcacgggcgt cccgc 446

<210> 16737
 <211> 220
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-A12
 <400> 16737

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 actccctgcg cccgccgagg atccctctcg ccaagcccct tcccgcatcg gcggcgctcc 180
 tggagctcgc gggctcacc gcgctcgccg acgacgcgcc 220

<210> 16738
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-015-Q1-K1-A3
 <400> 16738

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ggcgagggcc gcatcaccat gcgcaagacc gtgggcaagc ccaaggtggc ggcgtccggc 180
agcccctggt acggccccga ccgcgtcaag tacctcggcc ccttctccgg cgagcccccg 240
agctacctca ccggcgagtt ccccggcgac tacggctggg acaccgtcgg gctgtccggc 300
gaccccgaga ccttcgcca gaaccgcgag ctggaggtga tccactcccg ctgggccatg 360
ctcggcgcgc tcggctgcgt cttccccgag ctgctctccc gcaacggcgt c 411

<210> 16739

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-A8

<400> 16739

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gcgttcgcca cgggggcggt cgcgggggccc atgctgcgcc tcagggagtc catggcggac 180
gggtccgagt acaacctgtc ggagctgcgg atggagtgcc acaccggcac gcacgtcgac 240
gcgcctggcc acatcaacca ggcccacttc gccgcgggcc tcgacgtcga cacgtcgac 300
ctccacgtcc tcaacggacc tgcattgcta gttgatgtgc caagaaacac aaatataaca 360
gctgaagcga tggaattcct aaacatcccg agaggggttc gccgagttct gttcagaaca 420
ctgaacactg acaggaagtt gatgtg 446

<210> 16740

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B1

<400> 16740

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ggtgctgcct gtgccc aaag tgcgacgca actactgaat attgcacgcc gcatggagga 120
ggaaagcgct gatgctgccg ctctgcacca acagtgtctg cggccgcact gactgctagc 180

tgaagcacgg cggccgcaag ctgtgcaagg ctgagaactg cggctagagc gccagagga 240
gcacggactt ctgcaaagcc catggcggag gacagcgggtg cacatggggc acaggctgcg 300
aaaaactgtc ccgtggcaag agcggcttct gtgcagcaca tggcaccttg atggccaggc 360
atgcgagaac atgcagcgga caagaatgta ggaagcatga ttggaccagg tc 412

<210> 16741

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-B12

<400> 16741

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acctcatttc atgagtgtta tgacaccatc aatcaactca ctggcctttg cattacaatg 120
atctcaatga taaatcactg cccctaccct acttacttag cttgcatcac atatccctat 180
cctcatctgg cttaatacct aagaggtcca cacctatccc acttcctatc acttgcgag 240
cctcaattac taatatcact ctccctgtat cacagcatta atcgagact gtgtcatatt 300
tacacacaac atc 313

<210> 16742

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-C12

<400> 16742

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tgctgctgac gaggcggcgc gaccatagt aaaggcgtac aacagctcac ctncctcgtc 120
cagctccagc cgccgtcagg ctcccgacgc aacttctaac tccgttcgcc tccaggcgac 180
accatcgccc gctggcacgc cgccacagca gcaggttaac acaatttggc ccggagctta 240
gttgaatcct gttccgcca ctgcccagaa ccatggcgtc gtogaagctg cagctgcctg 300
ctgacgacag cgtcctcctg ctcatcacc actccaatct caccaccttc gcagcggaca 360

tccgcgtctc gcaacagacc accgtggagg cgctcaagga caagctctgg cgcaag 416

<210> 16743

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-C3

<400> 16743

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cgaaagcggc gagcgaatta gaagatgctg gacaagctgt gggacgacgt ggtggccggg 120

cctcgcccgg agacgggcct cgagaagctc cgcaaggcca ccaccgcccg tccgctcgtc 180

atcaacaaag acgcggacgg cggcagctac aagcggggcg agtcgatgcc gtcgaccccg 240

acgacgccgg tgacgccgtc gtcgtcgtcg tcgtcgacga cgccgcgcgg cgccggcaac 300

gtgtggcgca gcgtcttcca cccggggagc aacctggcca ccaagggcat gggcgccaac 360

ctcttcgacc ggccgcagcc caactcccc accgtctacg actggctcta cagcgacgag 420

accaggagca accacc 436

<210> 16744

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-D4

<400> 16744

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attgcattgc atggctagaa gcgttatatc taggaggcaa aagcaggagg agactggtgg 120

gaggggagta gaccatcgcc tattcgattc tcaactactg tccatgctgc ttaaaagaat 180

ccctctggtc ctgattaatt agaagctgta gttgtccttg acttgcaacc atgtatccac 240

agatggtata tcatgcagat gttcggggcg gggagaagga gttggcggcg gcggagacgg 300

agacggagac catgggctgc tgctcctgcy ctcccttgng caggatgata tccagatgta 360

tcatcaaacg caacgtanga agagaacggc gcatgaggta cgacgagagg acgggaatgg 420

actatgccat ggcgtacgct ccccccgcaga catgctacgt gcgcca 467

<210> 16745
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-E11

 <400> 16745

tcgttctgaa aagatagtct caatgaggag acctgctaatt ggcaagcgca tacgaggaat 60
 gctgccgaat gatgctacaa aacgggtgctc aatctgatag ctagattagc cattcattat 120
 agttctatag ccctgtgatt cacaatatca cgtacatgcg ttgtcaggac agagcctggg 180
 aacgacacat cgtacttata gatctacact agagatactt gcagacacga ttgagatgag 240
 cgaaaacatg gacaagaaga gctgtctgga ctgatgcagg ctaggacctt caatgcctat 300
 gctcgatgca gatcgcgtaac taagggtgaca atgtgtgcag gggaatacac tatcgtggca 360
 gcatttcg 368

<210> 16746
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-015-Q1-K1-E8

 <400> 16746

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 aagaaagctc gtattgggaa ctacagttcc agtactccaa agtgtactcc agaaataaac 120
 aagagatggt ttgctgctct tgttcgccat aacattgatt taatctactt gaagaaatct 180
 ttggttgtgg atctactaag ggagccggat acatttgga gcaaagttat tggctgtttt 240
 gtgagaataa agattgatct caacgattat agtttctaca tgcataaaaa ggtgcaccaa 300
 catagaaagt tgtatcagct tggactagta acaggcacca gtaaattccc tgaagaatac 360
 aagataaatg atgtatcaac agatattctt ttatgtattt ccagcatacc tgacatcaaa 420
 atttcaagtt tgtcagatga agaatacgaa gaggaagaat g 461

<210> 16747
 <211> 460

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-E9

<400> 16747

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agagagagag agagaaggat ctaggtcaca atatagacga aaaccaatcg gagacgaatg  120
gtcgtcgcac tcgcacgagg gctgattcct ttccagctcg caccgcgggtt gaacagcggtt  180
tcgttgtttc ctccccaact tccaacacgc ctcgatctag atccactctt ccccttcttc  240
cttccggtcc tccccccgag actattcata taggcgggta ggcgtccgag gcctcgtttg  300
ttctcggctt cttgtctcca agggtgctac tccgtccgcg cttgggtctgc tctcgtcctt  360
ccggaggccg cggcgcaaca tggcgaagat caagccgaag gccttgctcg cgcaaagcaa  420
ggatgaagaag gtccccggcc aaatcagcgt ggccacgata                               460
  
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<210> 16748
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F3

<400> 16748

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gcaatcgaac tatgggttct attggtcaaa ataagttact agcacaatct ttttggacag   60
agaacatgta aagtaaaaag gaatattggg ttgggggcaat ataaaactca atattatgta  120
aagaaattta aagatgtctg tgttacatgt ttatcatatt cactcaaagt gggcaaattg  180
atgtgaactt gtgaagcatg cagagtgaat atggggccgt caagtgtagc tgcattcttc  240
actagacaat ttacattttc ccc                                                    263
  
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<210> 16749
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-F6

<400> 16749

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ctgtcgaagt cacttgatta tggcacacgt gacatatttc aataattggg tgtttactat   60
  
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tgagcatagc tcagtacaat aacaccacat atttcagaag ccacacacat tatttagata 120
 ggtttccact catactacac aagggacttg atctgagaac ctggcgatat gcaacatatc 180
 atatgtgtct atatatagat cggataccat catatgatga gtggaaggct atatatgtat 240
 gcatgaactt tagggaatgc aaccaggagc taagtatgag ggttgcttga gagggttgct 300
 cgaccaacca ggagctaagt atgagggttg cttgagc 337

<210> 16750
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-G2

<400> 16750

ctgctcgtac tcgggtccgga attcgccggg atcgactcca acgcgtaccg cgtgtccctc 60
 tctcgcac 68

<210> 16751
 <211> 387
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-015-Q1-K1-G9

<400> 16751

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 acgaccagca acgagatctc aaaatgcgca ctgttactga tcagacacaa ctggagcacg 120
 acaacaagaa tgcttgagac ttctgcctga tgggctatag tctacgttca agtggaagca 180
 gcatcctgcg tgccccctgg ttttcctgga gctgcctcgc ggatgatcct gagggactcg 240
 gcgaagtcgt ccaggagctg acggccatcc ggaaactgcg cttcgtctac cgacaggact 300
 agcttcacgg agtttatgta gctctggtag tgcacagtca gggcatgtgg gtggccgtag 360
 gtgctgngcg cgatgtagac gatgggg 387

<210> 16752
 <211> 438
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H4

<400> 16752

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 tgggtggatt tgctgaagtg caatcttctg ctgggaactc gcaggatagc gtgcaatctg 120
 ttacagttaa ggcaaagaag gctagctgga gcatgggctc ttcttttccc cttaaagaaa 180
 caacgaaagc ccttaccaag attcaaattg acgacgactc tgatctgatt gatgaagaca 240
 gtctcttgac tgaggaggac ctgaagaaac cacaacttcc agttgttggg gactgtgaag 300
 tgggggcagc aaagaaagca tgcaagaact gtacttgtgg cagggtgaa gcccgagaga 360
 aggttgggaa gctggagctc actgaggagc agatcaataa cctcaatca gcttgtggca 420
 gttgtgggtt gggatgatg 438

<210> 16753

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-015-Q1-K1-H6

<400> 16753

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 tgggtggatt tgctgaagtg caatcttctg ctgcaaactc gcaggatagc gtgcaatctg 120
 ttacagttaa ggcaaagaag gctagctgga gcatgggctc ttcttttccc cttaaagaaa 180
 caacgaaagc ccttcccaag attcaaattg acgacgactc tgatctgatt gatgaagaca 240
 gtctcttgac tgaggaggac ctgaagaaac cacaacttcc agttgttggg gactgtgagg 300
 tgggggcagc aaagaaagca tgcaagaact gtacttgtgg caaggctgan gccgaggaga 360
 aagttgggaa gctggagctc actgaggagc agatcaataa cctcagtca gctt 414

<210> 16754

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-015-Q1-K1-H8

<400> 16754

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<210> 16755

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-A6

<400> 16755

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gttcgggctc tccctggtga agctggacat ccggcaggag tcggagcggc acaccgacgt 120
gatcgacgcc atcaccacgc acctcggcat cgggtcgtac cgcgagtggc ccgaggacaa 180
gaggcaggag tggctgctgt cggagctgcy aggcgaagcg ccgctgctgc ccccgacct 240
tcccagacc gacgagatcg ccgacgtcat cggcgcgttc cacgtcctcg cggagctccc 300
gcccagacgc ttgggcccct acatcatctc catggcgacg gcccctcgg acgtgctcgc 360
cgtggagctc ctgcagcgcg agtgcggcgt gcgccagccg ctgcccgtgg tgccgctgtt 420
cgagaggctg gccgacctgc agtcggcgcc cgcgtccgtg gagcg 465

<210> 16756

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B1

<400> 16756

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gcctggccta ctgcgcggcg ccgcgctcgt cgtgctggtc gcggtggcgg cgtcgctcgc 120
ggcccacgtc acgtcgaact gcccgtgca gccggcgccg tcgcatctgc cgcgctccac 180
tccgacgccc aacaacctac tccagaggct ggagaagctt gtagaagggg cgctggacgc 240
gccggaggac gtgtacgtgg acgcggcgcc tggcggcgcg ctgtacacgg caaccaggga 300
cggatggctg cagcggatga tgaacaacgg ctctggggag cgggtggcgt tcgtcggcgg 360
cacgggcctg ctcagggctc cgccgtccga cgactgcacc atgctcgtct gcgacgccga 420

caaggggctt

430

<210> 16757

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-B8

<400> 16757

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cgtttggttg atcatcgcac tgatcaggca gccatggcta ccaaagccaa atcaagctcc 120
tcgtcatgtc tctccttctt gaaggacgcc ctgctccttc caaccaagaa cgccaagctc 180
ttcgtccttg tcttctctct ggtaaccgct cccctcattc ttctccagat caccaatgtc 240
ttctgcatcc agccgcgcac agccgacatg ctgcaccaca tcaacgagat caagaacatg 300
gacccctcaa gcgccgatta cgccaagctc atggtggaga tcatgaagga agccaaggag 360
cttgccatga tctccatcgc gctcctagtc atcacctttg caggaagctt tgctaaacag 420
atcatagcct tcttcgccac ctccactacc tacgcgggtg 460

<210> 16758

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C3

<400> 16758

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tcgatctaca acaagttgca caatggacag aacactgata acttctaacc tctccatgag 120
tgcacatgct tcaagatcgt cccggagggg tcaactacatc tctcctgcag cctctgctgc 180
tgcacacaac tccagctaca ggaagaagaa gaagaactcc ccgtctacgc cgacgtcggc 240
cgacgcaact gacaccgttg tcattctcca tcctgccact gacaatgttc agtgcactgc 300
tccgaatcag gccggccgac atgagcttga agagctcgtg gccgccaaga ctaacacggt 360
cagaattgct actgcaagaa caagtgcctc gagccagtct cgggctaagc ttgaacgccg 420
gcctgccccg ggaatcacg 439

<210> 16759
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C4

<400> 16759

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aaaaatatcc ggcgcacccc gaccttcgcc tcggactccg ggcagcaagc agcagccagc 120
aggcatgggg atacctgtgg tggttcccggt cgaggcggac tactcgtgct actactccct 180
cgacgcgcca ccgaggggccc ccgccgacgc ggcgagggcg ccgagccgcg cgcacgtcgc 240
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cggaggtggc cgcctaagca gccgatcggc ccaagagagc ggcctccgag tgaggcggcg 360
cgctcttgtg caagagcctc ttacggctcg gcgtgccgga gctcagagtc atcgccggcg 420
tcgcacgact cgtgttcagg cccaagca 448
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<210> 16760
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-C9

<400> 16760

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tcgggcgcgg cggcggcggc ggccatgagc agcgggagcg agagcactac cgccagcagg 120
tggcccagagc tggccacgct gcgcgccttg gcgcgcgacg ccgcggagca gctgcggctg 180
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gaccacctcc acggccacgg caagacggcc aaggtgatgc acctgctgct ctggggaccc 300
aagtgaagcg gcgagaggcc accgtaccgc cggcggttgct cgttttgctc tgccctgcaat 360
ccgccccgca cggactgtac tgtactgtac ctatacacct atatactacg acgtgcacat 420
gtacgagtct acgacgt 437
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<210> 16761
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D12

<400> 16761

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 tcatcatcgg tgagcccgtg gcggcgccgc cgccacagca taggggcaag ggggacagcc 360
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 acagcatctg gttcaatctg 440

<210> 16762
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-D3

<400> 16762

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 accgtctcag ctcgatcgca acgcgctcgg catggcgctc gaggtgtggc tategccggc 180
 gtctcgcta ccatccctgt ccaacgcacc acctcgctta cgctccaagc ctgccaccac 240
 aaccgcctct gtgtctctct cctgtccccg acctgcccgc gccctgcctg tgctgcgtgt 300
 ccgtcgccgc cgacgacttc gcgccaccga gcagcaaggc caggttcagg agcaagatga 360
 cgaggtggtg gacaggaaca tgctgcccta ctgcagcatc gacaggaagc agaagaagac 420
 gctgggagag atggagcagg agttcctgca agcccttcag 460

<210> 16763
 <211> 451

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-016-Q1-K1-E1
 <400> 16763

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 aggacagcgg ttcaggatac attcagctat ggctcccatg tgatgcaata tggttcattg 180
 gagttgaatg ttaagcatct gctttcgtac attggcacia accctgctaa cgatgacaac 240
 acgttcatag aagacaactc ggtgccatca ttctcaaagg ctgttaatca gcgcgacgct 300
 gaccttgtct acttctggca gaagtaccgg aaattggcag acagctcacc tgagaaaaat 360
 gaagctcgga gggagttgct tgaagtgatg gccacaggt ctcattgtga cagcagcgtt 420
 gagctcattg gaagccttct ctttggtct g 451

<210> 16764
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-016-Q1-K1-E10
 <400> 16764

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 ctatgtccct tgctcacctc cctggctcgtg ctgcgcggga cactattctc tagccaacta 120
 ccgtcgggtg aagccctgcc atcgatatcg catgatattg gttgtcttct tcgaccacgt 180
 cattgcctca caggatttgg acacctgtc gacactcgac cacgtgttcg ctcgttacca 240
 cgccatcttc agcatcatgg ttctataaga ctccgcgcac tcatcggcac ccggctgtca 300
 atctccacca cgcagcgtg catcggactt accctgtatg atgttcgacg acaagcccaa 360
 accagaattt atcaatatc tcacaagtat tgagtcacgt ttgaatgctg gtaagcaatt 420
 tatttgctta gtaattntag ggctttgccg gtaggcgcta tcggcattnt atgc 474

<210> 16765
 <211> 395
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-E11

<400> 16765

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ctgctgcatg aatctctgtc attgttgtcc gatgataccg gtggtcgtgt acaaccacat 180
ggttacctaa cagcattaga acagcatggg gcaccagaac cgcggggggc acgcggagta 240
ggcgttcgcg cggacggcga acgatggcgc gctggccgct catgnggaca cgatgagcat 300
ccgggcagcg cgcttcaata tcagcgacag actgtactcg cgcgaccacg agaccgtgct 360
gccgctggcg cacggtagac ccctcgggtg tcccg 395

<210> 16766

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-E7

<400> 16766

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gagttccatg tctaggaatt ttaatgcagg tgtaaaactac ccgatcaatc ctacaaacat 180
gagtgcctttt gctgcccttg gaaatggggg tggcgtcaat tatatgggtc tcccttctat 240
tgccccctgag ttggcccagt tgggcaacat ttcaagcctt gggtcaggga acttttagccg 300
tggagctgga gttaataact taagtttacc ttctggctcc tatgggagga gcaattcaac 360
tgggtacaatt ggtgagcctt tttctgcac aggcaatgca tatgaagtga 410

<210> 16767

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-F1

<400> 16767

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aagggcacgg gcacagcgaa ccagtgcccg accatcgacg gcggcgtgga gtcgttcccc 180
ttcaaggccg gcaagtacca gatgaagaag ctgtgcctgg agccgacgtg cttcacccgtc 240
aaggcggagg gcatcggcaa gaacgccccg ctcgagttcc agaagaccaa gctcatgacc 300
cgctcacgt acacgctgga cgagatcgag ggcccgtcg aggtcggctc cgacggcacg 360
ctcaagttcg aggaaaagga cggcatcgac tacgccgccg ttaccgtgca acttccggga 420
ggcgagcgcg 430

<210> 16768
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-016-Q1-K1-F10
<400> 16768

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ccaccgcct cgttcctccc ccgccggcga gagatctacg agatggtgct gtcacacggc 180
gtcgggtggc ccgatgagtc cgtccactcg acgttcgcgt cccgctacgt ccgcacctcc 240
cttcctaggt accggatgcc ggagcagtcg atccccaagg aggcggcgta ccagatcatc 300
aacgacgagc tgatgctgga cggaacccg cggctgaacc tggcgtcctt cgtcaccacg 360
tggatggagc ccgagtgcga caagctcatc caggcctccg tcaacaagaa ctacgtcgac 420
atggacgagt acccgt 437

<210> 16769
<211> 312
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-016-Q1-K1-F4
<400> 16769

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gacgatagcc acggggctgg acctcctcag ctgctcgatc tgcattcttct tgcgctcagc 120
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 tgccgaattt gtagcctatt cgagagagag ttgacgggtct tgtccaataa tcaatactgg 240
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 tacaatttat ct 312

<210> 16770

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-G3

<400> 16770

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 ctgcgatttc cagatggagc ggtatgtctt taagcgctgc accgacggca tctacatcat 180
 caacctgggc aagacatggg ataagctcca gctcgcggcg agggttattg ttgccattga 240
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 gttcgcgcag tacactggcg cccatgccat cgctgggagg cacaccctg gtaccttcac 360
 caatcagctc cagacctctt tcagcgagcc tcgctgtctc atccttactg acccaaggac 420
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<210> 16771

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H5

<400> 16771

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 catcggaagt gtttgtcgga ggagtgtctg cactaactat ttatcttcag ttggttgtcg 180
 tgttgccaac ttgcgatgtc aaggtgcata tttcagtttt ttagagtaa aaatgcactt 240

tacatcctgc cgccaaactt aactatgggc ctgtttatgc ccctgtttgg tttagctttt 300
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<210> 16772

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-016-Q1-K1-H8

<400> 16772

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 tacgatgttg gtagtggatg ggccgaaggg attggttaaa aggggtcccga acttgaccaa 180
 cggactgctg cacaacaagc tgtagaaggg attgcaagac acgcacaacc ggatgggtcaa 240
 agaacaggcc cttcattgct aaacgtagct ttcattggaag gtttaacaag ttaaggactg 300
 gttgcggcac taacgcttgt atttgcaaac ccttttggtt aatcctaaaa acgaaaatga 360
 gtccgttaga ttagatacta ccaagtttgt ttagcacatt ggcattggct taagcaattc 420
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<210> 16773

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-016-Q1-K1-H9

<400> 16773

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 attacaagtt ttactgacta tgtattttca gggtttattca atttcggttc taatgcttct 180
 gacagcagtt gtatcagtc tcttgttcag cttacatgta tccctcgcac ccttccttgg 240
 atccacataa gtgttaataa taattttgtt gcatctcttc tgctgatcag agctttcaaa 300
 ctcatgacag aataatgtac taaacttcag tttggtgtct atctcagtg acctacactc 360

agttggaaaa cttcaaccac actgcnaaca ggtttataaa aggaaaaaca natttatggg 420
ctcaaacaaa gtgtgatagt g 441

<210> 16774
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A11

<400> 16774

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gactattcct ccataattcg ttttttttgt ggcgctgcag agacttcatt tcattttaga 180
attccattat cttgcttgct tgtatgagtg ccattcattt taccctaatc tctcattatt 240
gacctctact atattatcgt caggattcaa ccaccactac agcaacactg tttccatata 300
tatctagctt atcaaggctg ttctgcatgg acctgcttca gttctttggg gtaaagtggg 360
ttggctgaaa tattttgggt aactgcagtc tagtatttag tgccagttgc attgattgca 420
aatttcaaga tggcgaattg atgatgtttg 450

<210> 16775
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A3

<400> 16775

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ccaaatgaga aaccggaatt taagccagat gctggccac aagttggtga gaccaaagaa 180
tgtgaaatta cagtagaggc accagatgag aaaatagcat acaaaggtat tgttgaacca 240
ataatcaggg agataactga agatcaaact gcagctggag aaccagatga agaagctaca 300
acaactgagg aaacggtaga ggatgttaaa gtgctagatg ataagtctac agcagatggg 360
aaacctgtag agaatgccac agtcgcgaca aatgaggatt caacaacagt tgagaatact 420

ctgaagggat gcatggttgc gccaccaggt acaaata

457

<210> 16776

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-A8

<400> 16776

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cctctccagc tccgttggag ctccggacag cagcaggcgc ggggcggtca cgtagtaagc 120
agctctcggc tccctctccc ctgctccat atgatcgtgc aaccatcga gctacgcgcg 180
tggactgcct tccctgggtc ggcgcaggag gggatcggaa ggatgacggc atcggtttcc 240
agggccatct gcgtacagaa gccgggctca aaatgcacca gggacaggga agcgacctcc 300
ttcgcccgcc gatcggtcgc agcgccgagg ccccgccacg ccaaagccgc cggcgctatc 360
cgctccgact ccggcgcggg acggggccag cattgctcgc cgctgagggc cgtcgttgac 420
gccgcgccga tacagacgac caataagagg gtgttccact tcgggcaggg ca 472

<210> 16777

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B1

<400> 16777

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tgcccgcat gatggacact gtgctcaacc tgcggtcaa cgacgaagtg gccgcccggc 180
tggcggtcaa gagcggcgag cgcttcgcct acgactgctt ccgccgcttc ctcgacatgt 240
tcggcaacct cgtcatggac atccccgct cactgttcga agagaagctt gagcacatga 300
aggaatocaa ggggctgaag aacgacaccg acctta 336

<210> 16778

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B11

<400> 16778

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cgctgcctga gctctcacat ggagccgtgc caacgcgcat gcatctgtca cgaccttctg 180
cagaatcaca cgaatagtta tacgaccacc gagacctgtg cagagtaaaa tagctggtgg 240
acgtactagc cctggcaagt tcccagagccc ttcaccgtag tatgacactt gcttgggaga 300
cctgcatagt gttgcttgga tggaagacag tgatttcac aatctgcgaa ctgaatctct 360
caagcagcaa tacaacttgg tcaaggatag gacagcgggt caggatacat tcagctatgg 420
ctcccatgtg atgcaatatg gctcattgga gctgaatg 458

<210> 16779

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B3

<400> 16779

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caaattggta ttcctggtga taccggggaa cctaaactgc tgccgttgca aagccaaaat 180
aaccaaggcc tggactggct taaaagagga gttctgcac gagaaagtga agttcgatgc 240
caagaaagag aagaaagggt tgtgggtgcg tggaagtctg acgccgagaa gctctgcaag 300
aagtgtggtc caaggccggg aaaatcgtga aggggattgt catcgctgag gtgtggccaa 360
taccagcccc gcccaaggag tgcaagcctg aggcaccgaa atgttgcgac tgtgagaagt 420
gcaagccgaa gcctaagccg gagccaccga aatgttgc 458

<210> 16780

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B4

<400> 16780

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taatgggtat actggtgatt acggtggacc tagactgctg tcgatgtaaa gccaaagatca 180
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agaaggagaa gaaggtggtg gtggtgcgtg ggaagtcca cgccgagaag ctctgcaaga 300
aggtgtggtc caaggccggg aaaatcgtga aggggattgt catcgctgag gtgtggccaa 360
taccagcccc gcccaaggag tgcaagcctg aggcaccgaa atgttgcgac tgtgagaagt 420
gcaagccgta gcctaagccg gagccaccga aatgttgcga ctgtgagaag tgca 474

<210> 16781

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B5

<400> 16781

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cccctaaatt aaatta 76

<210> 16782

<211> 537

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-B7

<400> 16782

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tctgactcga tggtcgtgcc catgcctctc ctcgtccggc ctgtgcagct gcgtgtggcc 180
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gcacgctgtc ggttctgcgt gccatagcag tcgccttcac ctacactcga tgtgcacgct 360
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gggggccttg atcgagtccc aagtgcgctg gtctatggcg aggtgatcaa cgcccgctac 480
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<210> 16783

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D3

<400> 16783

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ccccgccccg gttccgggtg gtcaacccta cccctaggaa gttaggtttt gatgctataa 180
aacctccagc gaccggacag gaaaagagaa tagagctcaa atcttggatg cgcccggaacc 240
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catcctcgag acagagttcg ccgtgatccg cgacatcgtc gacgactatc cgtatgtggc 360
tatggacact gagtttccgg gcgttgtagag tcgtccgctc ggcacttaca agtcggcggt 420
cgagttcaac tacgccactc ttaaagctaa cgtggacatg ctg 463

<210> 16784

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-D4

<400> 16784

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ccgctaacgc tcgtccagc aaacccta atcagctcggct atgatactat aacagctgca 180
gcaaccgacg aggagaggag aataaagctc aaatcttgta tgcacacgaa ccgatggcga 240
cacctgccgt agagaagcct gaagacgtac agatccgtga tgctcggaca gacaacctag 300

agacagagat cgccgtgatc cgcgacatcg tctacgacta tccgtatgtg gctatgcaca 360
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 actacgccac tcttaaagct aacgt 445

<210> 16785
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-E1

<400> 16785

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 gcccgccgac agagacggag gcagctgcta agacaccgga gggatatccgc gcacctgcca 180
 tcatccacca cccgataccc acgtcttgta ccgcgcagat ctgctgctgc ccttgagatc 240
 taaatcaaag ct 252

<210> 16786
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-E3

<400> 16786

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 ttaaatacct tagcttccga acctggcaat tgtcactgat gccattgcat gtgtacctgg 180
 tttaagtga ggtttccgtt caaaagaaac ctgacaggca aagaaggagg aggataagaa 240
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 aaggtttgtg aaaat 435

<210> 16787
 <211> 467
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-E9

<400> 16787

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gatgccccctg cectactcct cgggtctccct attctgccac ggccgctgct catcgcgccc   180
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<210> 16788
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-017-Q1-K1-F1

<400> 16788

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ccgcgcgctc gtcggcaagc cggcgaccag caccagggac gtcttcggcg aggggcgcat   180
caccatgcgc aagactgctg gcaagcccaa gccagcggcg tccggcagcc cctggtacgg   240
ggccgaccgc gtctgtacc tgggcccgct gtccggccag cccccaagct acctgaccgg   300
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cgccaagaac cgcgagctgg aggtgatcca ctgccgctgg gccatgctgg gcgcgctcgg   420
gtgcgtgttc ccggagctgc tcgcccgcaa cggcgtcaag ttc                      463
  
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<210> 16789

<211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-F10

 <400> 16789

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 tcttactact atgctgggtc tcatactact cctactcttc tccgccgccc ggccggcgcgt 180
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<210> 16790
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-F4

 <400> 16790

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 tagctagcta ggataccgcc ataccacaag tcttcttcac aagtttagga gtgacagcaa 180
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 cgcgctcccg cctacgccga tgagctcgtg aag 333

<210> 16791
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-017-Q1-K1-G1

 <400> 16791

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 tcaaggtcag ggtcccgaag ccatggcaga agaagccgct gagcttcttc aacgagggcc 180
 tggcggacga gctgaacagg gagggcgctg gcgacctggg catatacccg gacgagaaca 240
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 tggatatcgc gagcgggtgc acggacccca gctgctacat gttcgaccgg ctgggcaccg 360
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<210> 16792

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-G2

<400> 16792

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 caggaagcaa tgaacatgtc cagatgctgg agagagctca agtatttgat ggacacaata 120
 gctgggaatt caaaaaactg catctcgtca cagcctcgca gattggatgc gtgattcaca 180
 cggctgggtt ggcatgtgtt gaacacatga gaaggaaggg ttgttccata cggttggaag 240
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 aataaattgc atcttccgtc tttctttgtg ttgtgtcctt tttctctatc ctttttcttt 360
 tctagaaaaa aaaagagtga gacactatac gtgtttgtta cctgcaagtt ttatgtttct 420
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<210> 16793

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-017-Q1-K1-H10

<400> 16793

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tcattcaaga gaagaagggtt cttgagggttc atgttgagaa ggggatgcaa cacaaccaga 180
 agatcacctt ccctgggtgaa gctgatgaag cgctgatac tgtcactgga gacattgtat 240
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 agcacacctt gtctctgacc gaagcactat gtgggttcca atttgttctt acacatctgg 360
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 aggcgattaa tgatgagggg atgccaattt a 451

<210> 16794
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-H12

<400> 16794
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 acgtacttca cgggtccaggc tgcaggcatc gtcgataacg ccgcgaccga gttccagaag 120
 accaatctca tgacctgtct cacgtacacg ctggacgaga tcgaggtccc gttcgatgtc 180
 ggatccgacg gcacgctcaa gtccgaggat aaagacagca tctactacgc cgacgtcacc 240
 gtgcagttcc cagtgggcca acgcgtgccg ttctctttca acgatcagca gctgcgtgtc 300
 accggcaagc tctagagctt ccgatgtgcc tttctcgtgc ccagctaccg tggctccttc 360
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<210> 16795
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-017-Q1-K1-H7

<400> 16795
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 gcagatgagg agatgggtgcg gtcaaagagg gctgctacat cgcttcatca aatataaaat 120
 gtcaagatcg cacgcggccg gcgacaagca gatcccatag agaagggaac cctagacgaa 180
 ggtagctaga tacggttgag gtctgagcac gagaccgtct catcaagctg ttcgagaaga 240

ccatgcccggt gccggagacg gccgtcatcc gcgaggctgc caaggacatc caacagagcg 300
ccagaagcct cttcggcacc actgactcaa aatgacagga gaacaacggt caagactcca 360
caagctcgcc tacgtaacac gaggtccatt acaccgaata ctctcgga g 411

<210> 16796

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A11

<400> 16796

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gagggactaa tgtcaccaca aacagaaact aaagcaagtg ttggatttaa agctgggtgtt 120
aaggattata aattgactta ctacaccccg gtagtagaaa ccaaggatac tgatatcttg 180
gcagcattcc gagtaactcc tcagctcggg gttccgcctg aagaagcagg agctgcagta 240
gctgcggaat cttctactgg tacatggaca actgtttgga ctgatggact taccagtctt 300
gatcgttaca aaggacgatg ctatcacatc gagcccgttc ctggggaccc agatcaatat 360
atctgttatg tagcttatcc attagacctt tttgaagagg gttctgctac taacatgttt 420
acttccattg tgggtaacgt atttg 445

<210> 16797

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A3

<400> 16797

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ttactaatgg gcatctactt gtaatcaggg agtgctgaca ctatgggtatc ggcaacagtt 120
atctaagatg agggagacat ttgtaaggctc tgatgaaacc aatcttgatt tgactgatct 180
tggaatgcac ttttctttat tcataacact gcttcatatg gtgagaaact tgagagcata 240
ctcagatcga atgcatgctt tggcatgtat ttgtcggact gctctttgtg ttcactctttt 300
tgcaaaggag agtgtccgaa gaggtcacaa gcctgttcct ggaacagatg tgatatcgct 360

ctttgaagat gtcaggctga aggaagatct aaacagcgta acaagcaaaa acttgttcag 420
agaagagcta gtggctgccc tagt 444

<210> 16798
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-A6

<400> 16798

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accgccacat cgaggcaggt gctttcaaac aggccgccaa ggctgccgac caagttctca 180
aggcagcgcc gggagatgag gacgcggtgc gatgcaagggt ggtggcatac atcaaggccg 240
acgagatcga caaggcgctc gccgcgatcc gcgcgcgtga gcgccttccg atcgatctca 300
gctactacag ggcctactgc tgctacaggc aaaacaaact gcatgaggct cttgagcttt 360
taagaggcca agaagaaact tcagctgttc tccagctgga atcccagatc ttttaccgac 420
taggaagaat gaatgattgc atgagtagct atgagaagct t 461

<210> 16799
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-C10

<400> 16799

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tcgtgggttct tcaccactg gttctgggaa tttttgggcg ccattggcg agcaacttgc 120
ttaaaactta gggttccacg aatggggacc ttgatggact aaaattttgc gtggagagcc 180
aagacatttg gaaagacaat tacatgttgc aattggataa ccgctccggc gctcgacggg 240
cggcggttggc gtttcggcaa tgggatatat actcatgtgc catcgcg 287

<210> 16800
<211> 465
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D12

<400> 16800

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gcgggagctg gtggcggagc tctgtcggca cttctacgag cagggatggg tcacgggcac 180
cggcggcagc atcacctca aggtcaacga cccacccgtg ccgctcgccg atcgccctcat 240
cgttatgtca ccctccggtg tgcagaagga gaggatggta gcagaggaca tgtatgtgat 300
ggctgcagat gggaaagtgc tttctgcgcc tgtagcaaag ccatggccaa acaagcctcc 360
taagtgcacg gactgtgctc ctctgttcat gaaggcgtat ctgatgagag gagctggggc 420
tgtcattcac agccatggaa tagagacttg catcgcaaca atgct 465

<210> 16801

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D3

<400> 16801

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atgccgggta ttattggaat tggacccttc ttaatctgga aagggtggtt tcctttggac 120
caatccttat ggtttc 136

<210> 16802

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-D7

<400> 16802

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ggctgcctcc accatggcga tctcctccac ggcatggcc ggcaccccca tcaaggtggg 120
ctccttcggc gagggccgca tcaccatgag caagaccgtg ggcaagccca aggtggcggc 180

gtccggcagc ccctggtacg gccccgaccg cgtcaagtac ctcggccctt tctccggcga 240
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 gtccgcccagc cccgagacct tcgccaagaa ccgcgagctg gacgtgatcc actcccgtctg 360
 ggccatgctc ggcgcgctcg gctgcgtctt actcgagctg ctctcccgca acggcgctcaa 420
 gttcggcgag gccgtctggt tcaaggccgg ctcccagatc ttcagcgagg gc 472

<210> 16803

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-018-Q1-K1-E10

<400> 16803

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 ggcgggcgcg gcagcgctgc tgctgctgct cctcctgtcg ctcgcccgcg cggcggacat 180
 gtcgatcgtg tcctacgggg agcgcgagca cgaggaggcg cggcggatgt acgcggagt 240
 gatggcgcg caccggccga cctacaacgc cgtcggcgag gaggagcggc ggtaccaggt 300
 gttccgggac aacctccgt acatcgacgc gcacaacgcc gtcgtcgacg cgggcgtnc 360
 ctcttccgc ctcggcctca accgcttcgc cgacctcacc aacgacgagt accngccac 420
 ctacctcggc gccagtacca ggccgcagag ggagaga 457

<210> 16804

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-E7

<400> 16804

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 ctctgcgac caccataagc gccgctgggt aatacatcaa tcactacttg atcagcacca 120
 gatcatagat ctacgcgtat gacgtggata tcgcgaatag cggcggctgc agacaaacga 180
 tcacatgct actgtcgctg atcatcgctc agaacatgga gccgtactac caagatctgt 240

ggtaactggt cttcatgcag tcgagcgaca gctactacac gcgcgccatc aaccggttgg 300
 tggagacact gtactatatg aacttcctca acaagacgtg catcaacgtc ctgctcgact 360
 acatcgaggt ca 372

<210> 16805
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-F12
 <400> 16805

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 tgacaagaaa tcatttgtgt cttacatcaa aaaatacatc aagaatctca ctgctgtgtt 120
 ggagccagag aaagcggatg agttcaaaaa ggggtgctgag ggtgcaacca agtttctcct 180
 tagcaagctg aaggacctcc aattttttgt tgggtgagtcc atgaaggatg atgcgtctgt 240
 ggtattcgcc tattacaagg atggtgccac taatccgaca ttcctctatt tctctcatgg 300
 tcttaaggag atcaagtgtt aggcgtgcgg cgaaattagt taccatggtt ggggtactatc 360
 tatgtactat tattatatcc aaaactatag ttgtcctggc tgaattgaac tcaaaagggt 420
 ttgtttga 428

<210> 16806
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-018-Q1-K1-G5
 <400> 16806

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 gacgacgacg aacgctggcg ctctgtgtg gaacgacaac gaggcgctga ctgtggggcc 180
 tcgcggtccc atcctgctgg aggactacca cctgatcgag aaggtggcgc acttcgcgcg 240
 ggagcgcac cccgagcgcg tgggtgcacg gcgcggggcc tacgccaagg gcttcttcga 300
 gtgcacccac gacgtgacgt cgctgacgtg cgccgacttc ctgcgcgcgc acggcgtgcg 360

gacgcccgtg atcgtgcgct tctcgacggt gatccacg

398

<210> 16807

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G7

<400> 16807

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cgccggaagg aaaggcgcg agcaagatgt cgtggcaggc gtacgtcgat gagcacctga 120
tgtgcgagat cgatggacaa catctcagcg ccgacgccat cgtcgggtcac gacggctgcg 180
cttgggcgca ttccgagagc ttccccgagt taaagcctga ggaggttgct ggtatcataa 240
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acatggtgat ccaaggtgaa cctggagttg tcatccgatg aaagaagggc actgggggca 360
ttactatcaa gaaaaccggc atgtccttga ttattggtgt ctacgactag ccaatgactc 420
cagggcattg caccatggtg gtggagaggc tcggcgatta cctgatcg 468

<210> 16808

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-G8

<400> 16808

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ttcggaagga aaggcgcgga gcaagatgtc ggggcaagcg tacgtatgat gagcacctga 120
tgtgcgagat cgatggacaa catctcagcg ccgacggcat agtttgtcac gacagcagcg 180
cttgggcgca ttccgagagc ttactcgagt taaagcctga agaggttgct ggtatcataa 240
aggactttga tgaacctggt actcttgac caactggtct ttgcgttgga cgtacacagt 300
acatggtgat ccaaagagaa cctggagttc tcatccgatg aaagatgggc actggaggca 360
ttactatcag gaaaaccggt atgtcctaga ttattggtgt ctacgactag ccaatgactg 420
catggcaatg caccatg 437

<210> 16809
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-H11

<400> 16809

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 gggtgaccca gacctatatg ttctgaaacc tttgcagtat gtgngattg aagtatggca 120
 ggtcaaagct gggtcagttt ttgacaacat tttgatttgc gatgaccag actatgcaag 180
 acatgttgta gatgaaactt ttgctgcaaa taaggaggct gaaaaggagg cctttgaagg 240
 agctgaaaga aagaggaagg ctagagaaga agagggttaat taacatggaa tcttactctc 300
 tttctgctct ggctgctgtt gcctgttaac aattctgaaa ctgtgaatgt gagccttgga 360
 ggagttaaca ggacgttgct tttccacagg aagcac 396

<210> 16810
 <211> 486
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-018-Q1-K1-H2

<400> 16810

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 aatatatcac ttaccgacat gcgcaacggt ctaaacaagc ttatgtagaa atgcactgac 120
 aggccaatac gcaaatgcat agaaaatctg gccgcgctta agggatgtcc tcagcgtcga 180
 ggaacatgtg ctaggggtgta tactatcaac cccaaaaaac ccaactctgc cttacgtaaa 240
 gttgccagag tacgattaac ctctggattt gaaatcactg cttatatacc tggatttggc 300
 cataatttac aagaacattc tgtagtatta gtaagaggag gaaggggttaa ggatttacc 360
 ggtgtgagat atcgcattat tcgaggaacc ctagatgctg tcgcagtaaa gaatcgtcaa 420
 caagggcggt ctaaatatgg ggccaaaaag cccaaaaaat aagtgattcg tttttagccc 480
 ttataa 486

<210> 16811
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-018-Q1-K1-H3

<400> 16811

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 tgccaacggt taaacaacgg atgagaaatg caagacagcc aatacgaaat gctagaaaat 120
 cggccgcgct taagggatgt cctcagcgtc gaggaacatg tgctaggggtg tatactatca 180
 acccaaaaaa acccaactct gccttacgta aagttgccag agtacgatta acctctggat 240
 ttgaaatcac tgcttatata cctgggtattg gccataattht acaagaacat tctgtagtat 300
 tagtaagagg aggaaggggtt aaggatttac cgggtgtgag atatcgcatc attcgaggaa 360
 ccctagatgc tgtcgcagta aagaatcgtc aacaagggcg ttctaaatat ggngccaaaa 420
 agccaaaana ataagtgatt cgttttttagc ccttataaaa agaa 464

<210> 16812
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-H4

<400> 16812

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 ggtcgcgcgc ttctcacgcc ggcgccggcg cggatgctct ccgcggaggc ctctgatgcc 180
 ctcgttgaga tcaagcccgg ggagatcggg atgggtctccg gcacccctga ggagcatctc 240
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 gtcgggaggt ggaaaattaa ttttttgtca acccaaaagt gggagaacct gttgatggga 360
 tggacatcta ctggggatcc atatgcta atgtcggtgaag caggacttac gtttgacagt 420
 gcagagtcag caaaggcggt tgccgaaaaa catggatgga attatgtggt tcggaaa 477

<210> 16813
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-018-Q1-K1-H6

 <400> 16813

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 tggatatctcc ggcgtgctct gggcatactt cctcctctac gtgctcgacc tcccctacta 180
 cttcaagtag aatacaaatt cataaagatg catatatata atatagctcc gcctccgacg 240
 ctctctctctg cgtgcaaagg tatgccatct cagcagtgac gagcatcgtg gatacatgca 300
 attcctctgc acatggatgg atggggatgt aacttggaac tgttaatttt ttttacttgg 360
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<210> 16814
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-A12

 <400> 16814

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 agggctgttc agatggctgt tgttttcagc ccattttgtc aggagcacct gttttgcttt 180
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 gctatttgta attctggata tgttaccoga ctccgatgtt cttgatgata atgtttgaag 300
 acgggggatac ttgcccttac gaactcaaaa aaaaaaaaaa aagacaaaaa acag 354

<210> 16815
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-019-Q1-K1-B1

 <400> 16815

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 gtcgcgcact cgccgctccg cccctacatg cagtcaccac gggagctcgt atcgctcgat 180
 ttctcttcca gcggcagcac cctccacccc tcatcaaccc aaccgcaag aaaaacccgc 240
 agcagagaag aggagtcgcc gtgaccgaga gctccagagc atgccccgc cacagcctcc 300
 gacgatggat ccaaagatga cagaggtgac ccagatgttc gcccgcttca agacggccta 360
 cgcccgcaac gacctcaaca cctgcgtcac cctctctcgc cagctcaagg tgcggtaccc 420
 gacttcact 429

<210> 16816
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-B12
 <400> 16816

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 cggctcccgg cccaccacgc gcaacctgct cctctccgcg cagttcctgc acaaggagct 240
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<210> 16817
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-B2
 <400> 16817

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agttccagcc ccaccaggca aaccgcccct tcctctctgc tcctctctcc gccaccgctc 180
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cggttcctct tctctagagg aggacgagta cggttacggt tacgactacg attacaagga 360
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<210> 16818

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B3

<400> 16818

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cgagtggcgc aagctcatgg acgagatggc ggtcgtggcc acggaggagt accgctcggc 180
cgtcgtcaag gagccgcgct tcgt 204

<210> 16819

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B7

<400> 16819

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ttccgtctcc gacgaccaca ttgcaag 147

<210> 16820

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-B8

<400> 16820

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gcgtcgttcc ggccggtgac ggcggagctc ggcggcgctc cgacggagct gggccgccag 180
ctggtggagg cggtgggcgt ggggctcccc tgcaccgtca tgcagtgcgg cgacgtcatc 240
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gcgtcgcta ccgtgtcgaa cctctgggtc acgcccggcg tcgcgccggg gttcttcgac 360
atgtccgtcc tcgccttcgc cgaacgcctt ttccgcctta cttccgaag ggatgact 418

<210> 16821
<211> 256
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-019-Q1-K1-B9
<400> 16821

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aaacaccatc ctgcagagat gacagtgtct cgctccccga gtcctcctt gttcctcgcc 120
aaaccttctg ccgtcgccaa gggcagggcg ggcggtgtga cgtgcttcag cgggccctcc 180
ctgtcagtgg ggcgtgaaga tcaggagggg gtagcagtgg tgggtggggag gcgtgcgttg 240
gctttcgcag cagctg 256

<210> 16822
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-019-Q1-K1-C3
<400> 16822

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gatgagtata cctgaaattt aggtctagaa attcactgct atcagtctca gaataggcta 180
ggttgaactt atacatgaga tatccacagg tccagggtgca ttgtttgaat ttgattagaa 240
atgtgtaaag gtaagtctta taaaaaaacc acctaaaaag ggccaaaatt tggatgtacc 300

ttctgggtta ttgaccccaa tatctttatt actatatgtg cctgggtttgc ttaaaaaaaaa 360
 aaaaaaatta aaaaaaaaaa gggccgccccg tttaaaagat ccaagcttac cttccccttc 420
 cttcc 425

<210> 16823
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-C7
 <400> 16823

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 ggaataccca tacctggttg ggcgaaaaag gcaaagaggc tagctgaagc tgtggacaag 120
 gtcattgttc cggatttcca tccaaaagag ggtgttaaga tagagacaga tgagaaggct 180
 actagcctat cctctgcgtc tgttgatgat gctgccgtca ttgaagagct tattgcaaag 240
 ctgcaagcaa tttctaaaac attgtcacca ggattccgta tgaaccctat acagtttgaa 300
 aaggatgatg atacccaatt tcatatggac ttgattgctg gttttgctaa catgcg 356

<210> 16824
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-019-Q1-K1-E4
 <400> 16824

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 agctcaatac aggcacgatg catccaggca caaatcgatc gatttagaaa caagaatcaa 180
 aggtgtgcga gccgagagac gaacacgaga gcaaatectt ccttaatatt catggacagc 240
 gcaacgctga cctgcaacaa ccgaagccga ccacaggcat ccgcaagaca gcaagtgaag 300
 ctcatatcgg cgaactgcgg ccttctgcgc ttgcctagg agcctacgga gtactgagaa 360
 cagagcagcg gaggatcatg gcacaccttc aattcttgcg gcgccagaag cagcggagct 420
 tgagccggtg cgctaggaca ttggcgatcg cgacg 455

<210> 16825
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E7

<400> 16825

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ggctttgagt cggcgccgcc tttaagttgg ccatctgcaa cgacgtcagg aatttccagg    120
tcctcaaaga gatgtacaac gagtggccat tcttcagggt caccctggac ctgctggaga    180
tggttttcgc caaggagac cccggcattg ccggcttgta tgacgagctg cttgtggcgg    240
aagaactcaa gccctttggg aagc                                           264
  
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<210> 16826
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-E8

<400> 16826

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gttcgccgtg gcaacggtec cgtcgtctgg ggccccggcg gccaaagaagc ggtccggcgg    120
cgtcacgtac gtggagggca tgaacgccta cagcggcctc aagggggtca acaaggtgaa    180
catgctcggg gtgcgcaaga ccgccgacta ctcttcgcc aaggtcgtgg cgtcgtcag    240
ccccgcgggc aggaagcggc gcggcggcgc gttcggcgcc caaatgaacg ccgccgccga    300
aatc                                           304
  
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<210> 16827
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F2

<400> 16827

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ggtcgaccca cgcgtgcggc cgaggaagag gagaagcgaa tcaagcaggc ttcgacaaca    60
  
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aggccgacgc tgactgccaa tgcaaacgtg gaactagagc aagatgggcg gctaactgct 120
gcttgcgctc ctctctgtct ctgctgctgc cgccctcag gtactcggag ttggcaatgg 180
agacaatcac atgagaatca tccacgagga catcattgag acagtcaaca accataccaa 240
tgctgggtgg acagcctcac gtaatcctta cttttcaaac tataccattg cgcaattaaa 300
gcacatactt ggagggaaac caccaccaca gaatgcacta agcattgttc ctgtcaaaac 360
ttattcagga tcactgggaa cttccaaa 388

<210> 16828

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F3

<400> 16828

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taggggaggg agttgttgca agcagccaag gcggtaagca aaaagtggag ttgaaggttt 120
caaagatcac tgtgattggt aagagtgacc ccacatcttt tcctatacag aagaaacggg 180
catcaagaga gttccttaga actgtagccc atctccgtcc tcggacaaac acttttggtg 240
cagtggcaag agtgagaaat gctctggcat acgcaactca taaattcttt caagacaatg 300
gaattgtttg gttttaaaagc 320

<210> 16829

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F6

<400> 16829

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gggagggact tatgtcacca caaacagaaa gtaaagcggg tggtggattt aaagctggtg 120
ttaaggatta taaattgact tactacacc cggagtacga aaccaaggat actgatatct 180
tggcagcatt ccgagtaact cctcagctcg gggttccgcc tgaagaagca ggagctgcag 240
tagctgcgga atcttctact ggtacatgga caactgtttg gactgatgga cttaccagtc 300

ttgatcgtta caaaggacaa tgctttaaca tcaaccggt tcttggaac 350

<210> 16830
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-F9

<400> 16830

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caccgtcgtt cctctcacga gtcccgacac acgcgaaccg cacgaaccct ggctggcggc 120
gggatgacgc ggcgggtgctc gcactgcagc cacaacgggc acaactcgcg gacgtgcccc 180
aaccgcgggg tcaagatctt cgggggtgcgc ctaccgatg gctcggccat ccgcaagagc 240
gcaagcatgg ggaacctctc cctcctctcc gcgggggtcaa ccagcggcgg cgcgtcgccc 300
gccgacgggc ccgacctcgc cgacggcggg cggggggtac gcctccga 348

<210> 16831
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-G9

<400> 16831

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aggagatggc gtcaaagagg attcagaagg agtcaagga tctgcagaag gacctccca 120
cctcgtgcag tgcaggctct gttggtgaag acatgttcca ctggcaggca acaataatgg 180
gtccatctga tagcccatat tctggtggag ttttcctagt cacaatccat tttcctcctg 240
attatccttt caaaccacca aaggtggcat ttcgtactaa ggtgttccat ccaaacatca 300
acagca 306

<210> 16832
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H10

<400> 16832

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gagaagaagc agggcctgca gctgctggac ttctgggtga gccattcgg gcagcgctgc 180
cgcatcgcg cggacgagaa gggcctggcc tacgagtacc tggagcagga cctggggaaa 240
aagagcgagc tgctcctccg cgccaacct gtgcacaaga agatccccgt gctgctgcac 300
gacggccgtc ccgtctgca gtccctcgtc atcgtgcaat acctcgacga ggcgttcccg 360
gcggcgccgc cggcgctgct ccccgccgac ccctacgctc gcgcgcatgc ccg 413

<210> 16833

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-019-Q1-K1-H8

<400> 16833

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gggtggggact gggatctttg ggctactgca gaatcttgaa ttggagcagc ccaagaatat 120
ctaaaatctg catttggtgc acgtctggcc aagctgcctt ctgaaggttt acaagttttg 180
gtcctgtcag cctttgcacg gcagaatgtg ctttagtttg ttactgtgtg gcacgctgca 240
tctgt 245

<210> 16834

<211> 349

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-020-Q1-K1-A4

<400> 16834

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ccctgctcgt gttgccgctc tccccggcca ccatacatgc gctgtccaga gaatcaagtg 120
ccagtgtga ccatgctcac aattctttac ccaccatagc cagaacattc taaggagttg 180

ctggcctata tgaagcttgt tccataatca tctcatatca cgaagaagaa gtggaagtcc 240
ctgaagagaa gactacacca cctttggagt ctcaagcagg gtctcgggttc tacttttagca 300
tctgcggggcc tgagactaac tcaactatag accaagggtta ggaagcgac 349

<210> 16835
<211> 198
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-020-Q1-K1-B10
<400> 16835

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gaatcgcaac acaccatggc cattgacacg cgagcctgcg ccgtcacgcg ccatctgctg 120
gccaccgctt gggcgccatc ggccaaactc cgttcacata tctctcagct cgcgctaccg 180
taatcctgct aaatgctt 198

<210> 16836
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-020-Q1-K1-C5
<400> 16836

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tcctcccctt ccgattccaa tctggtctcg ccgggccttg cggcgaggga gagatgggga 120
agaaccaggc gtacaaggcg atgcagcggg cgcggttggg gtcctcgtcc ggcgcgccgg 180
gcgcccgcga cgcgcccgaa gacggcatgg tcggtcccct tcctctctcc taggagatct 240
ctgtttccca tctgcacttc cgagtccag gctcgcaatc catcctgac tgattatttc 300
cgcagccata ttactatgct aattatatac gatagagtag gcttcagcc gctgaggaa 360
tttggtacc attccacttt cgctttgggt gaaagataaa gaaaaagaac tttggctaac 420
gagggccgct gcagac 436

<210> 16837
<211> 289
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-D9

<400> 16837

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agagaaaatg aaccttgtct ggTTTTCTAA attctgagta gctttgcctt gccattctgt 180
agcctcttaa caagcatcta tgtgatgatt cgggttactg ttgtagcaat ggcagaaaaa 240
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<210> 16838

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-020-Q1-K1-G1

<400> 16838

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tcgcggtcgt cgtgggtccag acgtctctga tcgtcgctga acagaaggcc aagaagaaga 180
tggctctcgt gataaacaag ctgatgtggc tcgogtgcct ctgcatctcg gcggccttta 240
tagcgctgac ctacgtcgtc gtgggccgag acga 274

<210> 16839

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-020-Q1-K1-G10

<400> 16839

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cccgtcgccc gccgtcctc cagaagcctc ggcaacgtca gcaacggcgg aaggatccgg 180
tgcattgcagg tgtggccggc ctacggcaac aagaagtctg agacgctgtc gtacctgccg 240

ncgctgtcga cggacgacct gctgaagcag gtggactacc tgctgcgcaa cggctggata 300
 ccctgcctcg agttcagcaa ggtcngcttc gtgtaccgcg agaactccac cctcccgtgc 360
 tacta 365

<210> 16840
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-G11
 <400> 16840

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 cttggctcta ggcgaaaaca tgggtgtcggg gattggcctg gtgctgacgt tcaagccatt 120
 tttctcccta ccgaatccaa cgaggcattc ataaatctgt gtagatgaag cccgttcctg 180
 tgaattgtat cgatgcactg cctgattaca gttgggtttc aaactgcaag aattcatgac 240
 ttcatgtatt ggtgtgtggg ccatact 267

<210> 16841
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-020-Q1-K1-H11
 <400> 16841

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 gcatcattgt tttatatata tacatatata tatatgtata tggatctatc taaaaaacg 120
 acaagaacca aaccaacaaa accaacacaa caaaccaaaa caacagcaac aacaaccaa 180
 aagggccgcc cctcctaaag gatccaagct aactaccgct accatgacgac gacaaacccc 240
 t 241

<210> 16842
 <211> 104
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-A1

<400> 16842

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acacaatccc tccccatgtg ctctgctgca actactacta tata 104

<210> 16843

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C10

<400> 16843

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tcctcttcgc cgctccaac tctggacaga gcaaccagcc atggatgagg agtactactt 120
gatcgtacta tgcacggggc tcaagtagtg catcctcagc tgtctcctct ctgtagacgg 180
cctcaaggta ttgcatatgg acagaaatga ctactatgga tgagattcca cctcactcaa 240
ccttaatcag ctctggaaga gggtcagagg ggaagacaag ccctcatcac atatagggtc 300
atgcagagac tacaatgtgg acatggtgcc aaagtttatg atcgcaaagtg ggacattggg 360
tcgaaccctc attcacaccg acgtgacaaa gtacttgctc ttcaaagctg tcgatgggat 420
ctatgctttc agcaaagta acatttacia agtccctgac actgata 467

<210> 16844

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C2

<400> 16844

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ccaatagtta ccccgagggt gacaagagat gtatgcgtgc tggccagaat gatggctgca 120
aacttgta tgcacagat tgaagagctg atgtttgagc tctatatgtg gcgctgcaac 180
gatgagcttc gtgttcgtgc cgaagagctc cacagttcgt ctggttccaa agttaccaag 240
tattacatag aattctggaa gcaaattcct tcaaacgagc cctaccgggt gatactaggc 300
catgtaaggg acaagctgta caacacacgc tagcgtgctc gccatctgct ggcttctgga 360

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386

<210> 16845

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C6

<400> 16845

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ggaggaggac cccggccgcc gcggcggtcc atggaggacg gatgaggccg acgccaacga 180
gaaggcgcct cgcccgagca ggcgggtcgc ttccctcgac gtcttcgcgc gcctcaccgt 240
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gtggaacggc tgcaacctcg cggacttcgt gatgcccttc ttctcttca tcgtcggcat 360
ggccgttccc ctggccctca agaggatccc ggaccgtggc cgatccgtga agagagtgg 420
cgtaaggact ctgaatctgc tcttctgggg cattctg 457

<210> 16846

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-C8

<400> 16846

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tctagtctgc gatctccttt acagcgtcct ttgcgagcct cgttacataa gcggcagcaa 180
tggtgtgaaa caataatcca acgcccagtg tccatagctg ttcgtttcct cccaaaccaa 240
tttccgactc atcttggatt aaagctcgcc cgaatgcacc ggcactgacg taagcccatg 300
aacctggaag cattcccaac caactgcca agacatacgg caagaacttc actgaagtaa 360
ggccatatag atagttccca agggagaaaag gtaacagggg actcaagcgt agcaaagtaa 420
caaccttaaa cc 432

<210> 16847
 <211> 470
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-D1
 <400> 16847

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 agcacatagt tgattggtgc tctactgggt tcaagtgtgg gataaactac caaccaccaa 180
 ctgtagtccc tgaagggtac ctggccaacg tgcaacgagc aatctgcatg atcagcaaca 240
 tcacagtctg ggctgaggtc ttctctcgta ttgaccgcaa gtttgatctc atgtatgcca 300
 aacgtgcatt ccttcattgg aatgtcacgt aaaggattga aaaaaggag ttctcagaag 360
 ccatggaaga tcttgcaaca ctgagaacg attattacga agtccgaact taaattgaag 420
 attaagacga cgaaactgaa tattgaatca tcgatctgga tgcattggta 470

<210> 16848
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-D5
 <400> 16848

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 gaaagctgat tagttacacg gagggaccga tctaatacgt tgccatcaac cataccgaga 180
 aggagctagg caatgatcta caaaaatgct accaggggtga aaacttcaaa tcaagtgaca 240
 agcagaaggt tgttttcatg ccattgttg tgcacagtgg gtcgcagcgg atcattcttc 300
 caaacaccat caacaataaa cttaatctca tatctaccag ggtacagtct cagatttaag 360
 gaaaacatgc cgtttttctga tctttccaac tttctttgac ttgt 404

<210> 16849
 <211> 365

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-D8

 <400> 16849

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 atgttgagta ccgatgcttc gtcactctgcc tcgcctgttc cacggactac cactccatcc 180
 acaactcctt cagcacctac tgcgagggtcc tcgaatccaa gatcatcctc gatcgggaga 240
 ctcataagtc ccacggcttc ggcttcgaca ccttctccac ggacgatgcg attctcaacg 300
 ccatcgaagg catgaaccgc aaggatcttg actgcctcaa catcacctgc aacgaagccc 360
 aatcc 365

<210> 16850
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-E4

 <400> 16850

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 cgtgctgccc gccaaaggga ggccggcggc gaggagcatg gtggtggccc gtgtccccgc 180
 cacaaggagg agcgtccgtg tagctgccgt cgtcgcgacc gaggccgcgc agatcgacta 240
 cagctcaagc gtctcgggtg tcccgatgga cgcctgcgac ctgcttggtg gctactcgtg 300
 caacgggccc atgttcccgaggccaagcc cgcctcggcg gctgcggcgg cgagcaggag 360
 tgtggtcggg gtggacaggg actacctgtc ctacgacgag ccaaagacgg tgttgccgga 420
 cgaggcg 427

<210> 16851
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-021-Q1-K1-F2

<400> 16851

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aacctccttt accatctgta cggatccagt tcccatcgac cttactcca tatccacaac 120
caccttctaa cattactacc gatacttcta caccaacctc tcacgctag tttgactgta 180
ccaagagacc tccatgctca ccttccaggg ccagaacttt ccacggcccc tccgccattg 240
ccgtcaatct cggatctatc ccttt 265

<210> 16852

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-F6

<400> 16852

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ttaaacaata atcccacatc atatccagtt aatactgtaa taacaacatt ctagcattat 180
gtattcaaac tgcttactga tcatatgatc ttaccatatt ctcacccctt tataaactct 240
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<210> 16853

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-021-Q1-K1-F8

<400> 16853

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aactcgtcg gcaaaagggg aaaggccgct tcggcgcca tgggaggtct gctcccttga 180
agctgcctcc tggctccatg ggctggcctt accttggcga gaccctccag ctttactccc 240
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accttctctggg ttgcccgtgc gtgatgctgg cgagcccgga tgctgcgcgg ttcgtgctgg 360
 tgacgcatgc tcacctgttc aagccgacct acccgcgagg caaggagcgc atgatcgggc 420
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 gcg 483

<210> 16854
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-G2
 <400> 16854

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 ttctgtatgc acgccaatat tattaatgtt cttagatttg ctcttatacc ttaatgcata 180
 catcgtttgc aggctcgaca accaaaaaaaa tataacgccc cgtttggtatc attgaaattg 240
 aatttcattc taataatagt aatttaggca tatatcaatc aagataattc agttttatac 300
 gaaagatatt tgtatactat tattagcaag atgtc 335

<210> 16855
 <211> 493
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-021-Q1-K1-G3
 <400> 16855

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 gattctgaaa ttcggcagca ggcattagaa gctatttata tgatcgtatt gcaagatggg 360
 ggtcgaaggt ccttttgggtc agttaatggc ccacgaattc tgcaagttgg ttatgaagat 420

gaaaaggacc cgaaagtgat ggaagcatat gaactcattg gttccctgct tgttgggaag 480
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<210> 16856
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-H10

<400> 16856

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 cacatactat aacaacttag tgccatctga agacagcagc aagctccctg aaccaattgc 180
 agcactaaaa tctgtaatat gactcatata aggcatgcta ctatatctta tcaagcgggt 240
 ctctgcgaca tagatccgat gctatatgat cgtatactgg ctgtaacact gttaaact 300
 aggttgatt cggatgtcaa tgtgtgcttc gtacccgatg taccttctct gctggcactg 360
 ttgcacattc actgtagcac atcagacgtt tgggtgctaataaggacaggc tatgtatcct 420
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<210> 16857
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-021-Q1-K1-H3

<400> 16857

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 ggaggggctt ctctaccagg tggagtacgc gatggaggcg atcggcaacg ccgggtcagc 180
 cctcgggatc ctggcggccg acggcgtagt cctggtcggc gagaagaagg tgacctcaa 240
 gtcctccag accttccgct ccgccgagaa gatgtacaag atcgactccc acctggcgtg 300
 cgctgtggca gggatcatgt ccgacgcaa catcctcatc aacaccgtcc gccttcacgc 360
 ccagcgctac gcgctctcct accaggagcc catccccgtc gagcagctcg tccagtcctt 420

ctgcgacacc aagcatgggtt acaccagtt cgggtggcctt cgtccctttg gggtc 475

<210> 16858

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-021-Q1-K1-H4

<400> 16858

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cccattgcc aagagcaaa gatcaacacc aggtccaacg gcagcaaccg tagcgtggcg 180
aaggggtcac caccaccagc cttccagttc cagtgcaggg cgtctacttt cgcggcggac 240
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<210> 16859

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-A6

<400> 16859

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aagactcctg ctctcgccg atcgatacga tggccgtgtt ctccgacctc cacaccgccg 120
acggcctcaa gtccctcgag gctcacctcg ccggcaaaac ctatgtgtct ggtgactcca 180
ttactaagga tgacattaag gtcttcgccg cgggtgccgc gaagcctggc gctgagtttc 240
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aaggttgttg tgtaaaattg gcttgccgat caagttctgc cggaacttct tctgccgatg 360
aagcttaaga ttaatattac cttgatcctt ttggatga aactgaagaa gaccagaaaag 420
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<210> 16860

<211> 207

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-A8

<400> 16860

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atgcagcgtg ccgtgctgnc actgacggcg atggttacgg agcgtgcagt ttgcgcgtgc 120
acgtgtgcgt ctcagggctg ctacctgcta ctgtgtgcct ctgagtgtct tagctgtgga 180
gtaagatatc ggctgcgcct gacagtt 207

<210> 16861
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-A9

<400> 16861

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tagctagtta gtttaccgtt ttaccacaag tcttcttcac aagttaagga ttgacagcaa 180
caaaaaatct caatggcctc tgccaccgag ctcaagtcct ccttccttcc caagaagtcc 240
gaatggggcg ccaccaggca ggccgccgag cccaggccgt ccaccgtctc catggtcgtn 300
cgcgcttctg gctacgccga tgagctcgtg aaaaccgaga aaacgatcgc gttgccgggg 360
cgg 363

<210> 16862
<211> 190
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-B12

<400> 16862

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gtcttctctc gtggtatata gccacagctc atgnnggactg ggtctcggga ggggcggatg 120

cgccgattgc gagctcgtcc tagaggacct aacgactgcg gcttgccgga gctcgtctgg 180
atggactcgg 190

<210> 16863
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-B4

<400> 16863

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gcccgtgtga catcggcacg ggatgcttcc agaggaggga gaccctgtgc ggcaggaggt 120
tcaccgagga ctacaaggaa gactgggaca gaggaaccaa ggagcagcag cagcaccgcc 180
accgcgtcga cggcgagacc gaagcgaagg ccaagtcgct agcgacctgc gcctacgagc 240
acgacgacga cacgcgggtg ggagacgagg tggg 274

<210> 16864
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C10

<400> 16864

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cacaagtctt cttcacaagt ttaggagtga cagcaacagg agatcttgat ggcctctgtc 120
agcgtgctca agtcctcctt cttcccaag aagtccgaat g 161

<210> 16865
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-C7

<400> 16865

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tcagcctcaa gccttgccgc tcaactggcac cacaagctcc tctgtggcgc gcggagtcgg 180
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tagtcttcct cggcaacgag atcgagggac ttctcgcgga cccccgcgtc agccaagctc 300
ctcttctga agccatcgaa cccgactttt accttcgggt tttcggcaac ttaacaagg 360
gatcccttaa cgcaacctg gccatctatt aagtaatgca acttggaag gccaacctgt 420
tcactattgg aatgggccta actgg 445

<210> 16866
<211> 454
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-022-Q1-K1-E9
<400> 16866

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ccatccgacg ctctcgccac ccccccggc accgtaccgc ctgcgcgtc cgcgcagtc 180
ccgtccacg tcatccgatc cacttatgt tctttctcg ctccagttc tccaccatgt 240
catcctcact gagtcgcct nccgctcca ctccagcca ggcccaagcc ccgtccacct 300
cgcgttcgga tccctcgatt ccgacctcg gcgcgcacag ttgtacgtgt gggggcgtc 360
tcgtgagcgg tgagcccttc ttacgatccg aggccaaccc catccactg cgaagcataa 420
agctgagttc taccggcca ccacgcggca tgg 454

<210> 16867
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-022-Q1-K1-F9
<400> 16867

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caaccggcg gcgacgaaga tggccccgaa cgaggtgttc ggcgtggcgt tcaacggcg 180

cttcaaccag cccatcatgt gcggcgggga gccgaggcag atgacgctgc aggagcgggg 240
 caaagccgac ccgcccattt acaccatcag gatacgctg ccgcagcacg gtggagagcc 300
 cgccgtctct ttcatttcat ctcatctcac tagttacctc tcgctgattt ctctcgctgc 360
 gtgcg 365

<210> 16868
 <211> 308
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-022-Q1-K1-G9

<400> 16868
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 gcctcccgcc cgacagtctt eggctccta catcatnnet ccatggcgac tggeccctc 180
 ggaccgtgct cgccgtggag cctcctggca gcgcgagtgc cggcgtgcgc catgccgctg 240
 ctccgtggtg ccccgctggt cgagaaggct ggccgaccat gcagtcggca gcccgcgtn 300
 gtggaagc 308

<210> 16869
 <211> 134
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-022-Q1-K1-H7

<400> 16869
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 tgctacattc aaat 134

<210> 16870
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-023-Q1-K1-A10

<400> 16870

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gtatggcaac acagggacaa catatatcct ggattcaagt gcaagtactg caaaaaacag 180
tggaaggatg tggtgctata cgtttcaagc aacaccttgc atcgtgtggg gggaatgtgc 240
aaggttgtcg catcgttcca ccggacactg tcgattactt tcagcaggag cttgacaagg 300
tccatgatgc tagtggtggt ggtgcttgtg gtagcgggtg tggtgctagt ggtgcttgtg 360
cttgcnghaa ccgttgttgt ggcagtgggt gtgcttggg 399

<210> 16871
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A2

<400> 16871

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caaactgcga gcagtagtga gtgtggtata tttgtgcctt cagtttcctg ttgggtggag 180
tgttcttgtc gtttggcacg gcacactagt attatcagcg ctctgttgaa agatggatcg 240
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gaatttcttt agtgggggtg ttgggctgct aaaaaccgcc ggactgagca aaggaacctt 360
gcgtctttgt gtaaagcaac aatcgaatct gtgtgtgttt gtgattaaag tcgtcattcg 420
gtcc 424

<210> 16872
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-A5

<400> 16872

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 aagcaaaacg cgcagcacgc cgggcgctcc acgcacgtag gctagcagag cgcgcatggg 180
 gcttctggac cagctgtggg acgacacggt 210

<210> 16873
 <211> 497
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-A8
 <400> 16873

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 gtgcgctggt gtgctgctcc atgtccgacc gtgcgtctct agctcgccat ggctgctcca 180
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 tggccgctgc gccgtcttta ctgcttggcc gtgcgttgcc gcgcacacgc gcccgacacc 300
 ccggttcctc tgtacgcctt ggttgcgcg gcgaaactgc gtccttcgca gctcgtggc 360
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<210> 16874
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-023-Q1-K1-B11
 <400> 16874

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gcgcacacagg tccgctttgt acaatcagggt ctagatctta tcggattaca actctcttgt 300
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<210> 16875
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-B6

<400> 16875

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aacaatagta agatcactga ttcaatcatt tcccacggat gtttcttggg taactgcagg 240
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gaaagaac 488

<210> 16876
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-C9

<400> 16876

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gactgactaa acccttggca atctccacca ggagaacgat ctccatccag catccaacgc 240
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<210> 16877
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-023-Q1-K1-E1

 <400> 16877

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ccgctgcccg tcggacacgg acctgcccgt gcagtgggaag gacgtggtgt acgaggacac  180
gcgcggcctc cggctccgca tgtaccggcc cactggcgcc gcagccgggg agacgaagct  240
cccgggtgctg gtgtacttcc acggcggcgg ctctcgcctg ctacgcttcg aggtggccag  300
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<210> 16878
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-023-Q1-K1-E11

 <400> 16878

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cttcggcgag ggccgcatca ccatgcgcaa gaccgtgggc aagcccaagg tggcggcgctc  180
cggcagcccc tggtaaggcc ccgaccgct caagtaacct ggccccttct ccggcgagcc  240
cccagactac ctacccggcg agttccccgg cgactacggc tgggacaccg tcgggctgtc  300
cgtcgacccc gagaccttct ccaagaacct ctagctggaa gtgatccact ccctctgggc  360
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<210> 16879
 <211> 358
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-023-Q1-K1-G4

<400> 16879

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atggactagg taactagtcg actaggtaac tagtccttac taaatgtttg ttcttcgtat 180
aagtttagac ttagaccac cttttgttc ggcaaattct tgtacaatct ttaagtatct 240
tggttctggc ctggtttggg tgtgttgtgt aactgagcan actcgtatta attttacgca 300
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<210> 16880

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-023-Q1-K1-H5

<400> 16880

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cagagctgtt cgtcctgatg gtgggcataa ataaggtttc gtatcagggc attctctgcg 240
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<210> 16881

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A10

<400> 16881

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136

<210> 16882

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A3

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gcgcaaaaaa gccgatattt cggtagatcg atttgttctt caattgtaac tgtagggttc 120
aagggtggcta atgaacggta ggtttcaaga tggccagtaa tgatatacac ggagttagtc 180
gtcatattgt actgtgttga gttttacgac ttcctgcctt tgggtgtggtt gtcctgatgg 240
agttgtgacg gaacgggtgtg gcttttcgct gccctttcct tcacccacta aaaagcatag 300
aatgtggaga attttacctt gagccattat agaagtttat aatactttat gtgccacgaa 360
aaaaaaaaaaga aa 372

<210> 16883

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-A6

<400> 16883

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ccttgatgtt gctattgcat tgacttatct ccatttgtgt tctggggacg ctttaatctg 120
ttacaacttg aggacgtcaa acatcctact gacagagagc taccgagcca aagtgtgctg 180
ttctgaactg tcaaaaagtg gtaatatcgt gctattaaag ggaacagggg gctacattga 240
tccagagtac ttggagacct cagagctcac tgccaaatct gatgtctact cttttggaat 300
aatactctta gaaatcatat cttctcatgg gccacaagac tgggatgtat tgatgaacca 360
ccggcaaagc agtgttgtac aatgggctct tgagaaattc tatgacgacc tcatgaatga 420
gatattggat taccgtatgg aggatc 446

<210> 16884
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-B5

<400> 16884

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ctccacagtc aggccacggg tctcgtcgtc gctcacagg ccaacttcat gcgcgtcatc 180
gtggacgcca cggccccggg gctggaccac caccggggt cgcacctgct ctgcgtcgtc 240
cgcgcgctgc tcaagaagat ccgcccgcc gtgctcgtcg gtgaccgct cctcgtcggg 300
gcggtcgaact ggaccgatcg ccgcgggatg atcgaggatg tcttcgagcg gagatccgag 360
gttgctgacc cgcctgtcgc caacgtcgac cgccttgctg tgetcttctc gctcg 415

<210> 16885
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C1

<400> 16885

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gcggcgtttc ttttggcctc gcaagccgcg gacgatgaaa gaattcccg gttttatcgc 180
aaggacaaca cctatttgat gctttctgga actagaccat acaacctgat ggtaaaatga 240
tacttaatta tgacacggaa aatggtacaa gacaagagtt catcacaaga cacggtacag 300
aaaagtgggc atgctgtacc tgggaatggt tct 333

<210> 16886
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-C2

<400> 16886

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gagaaacggg cacacgcacg tgagaggcaa ccaatattca ccgtcggcaa tgggcgacct 120
gatccctggg ctgccggatg aagtggccag ggagtgcctc gtccgggtgg gcttcgacca 180
gctgccggtg gtgcgccgca tctcgcgcca gtggaagtcg gaggtggagt cgccggacta 240
ccaccgccag cgccggggcg aggggctggc gcgcccggtg ctcgcgctgg tccaggcgca 300
gccgacagcg ccgccggatg acgacgacga cgccggcccc gcgcacaagc gctcgacggc 360
ggccaactcg taccggctgg tgctgctgga accggccgag ggacggtgga cgccgctgcc 420
gtccnctctt gggccaagcc agagcctgcc tctgttct 458

<210> 16887

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C3

<400> 16887

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ccatatctct atggtgatga cctggtaggg gtccctgaaga agaagcatgc tgccgggacc 120
tacaaaagcc tggctcttta ccttgaagca tgccaatctg ggagcatctt tgagggcctc 180
ctgccgaatg acataaatgt gtatgcgacc accgcgtcaa atgcagagga gagtagctgg 240
gggacgtact gccctggcga gttcccgagc cctccaccgg agtatgacac ttgcttgga 300
gacctgtata gtgttgcttg gatggaagac agtgatttcc acaatctgcg aactgaatct 360
ctcaagcagc aatacaactt ggtcaaggat aggacagcgg ttcaggatac attcagctat 420
ggctcccatg tgatgcaata tggttcattg ga 452

<210> 16888

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-C4

<400> 16888

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 ttttttttatt tttgaaaaaa aaataatttt ttattttttt ttttattagt ttaaaacaga 120
 taacaaaaaa aagtaacaat caagatgcta ttattttata taattttata 170

<210> 16889

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-D3

<400> 16889

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 aaagaaaaaa gaattttgat caaatcaaga gagggaagga tcccttacct gatttgaatt 120
 tcatcctcct ttaaatagga tatgctctaa gtcttcccat actttcctat aatgactgca 180
 acgattttct ccattttgcg aattcctatt ttatttgaag tatattacta tcatatacat 240
 tatctaaatc gatccacttt aaataaaaata gaaaaaatcg aaagaaaaaa aaaaagaaaag 300
 agtaaataat aaaacaggat attctgtttc ataattctga aatagagttc ttttttttag 360
 tattactcct cattaggatg tatatattaa tcatcctatt ttaatatata ttaatcatcc 420
 tatttttaatt aggttctaata ccaattagta gtaagtattt tcttttttat tta 473

<210> 16890

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E1

<400> 16890

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 acattcttac tggaacatt ccgcccata ttagtcgact atatagcttg aacttgctca 180
 atctttccca taacaattta tctggcccca tgccaacttt tctaagtggc ctaaacttta 240
 gtaaaactaga tctatcctac aacaattttc aaggacaaat accaagaact ggtgtattca 300
 ataatcccac aattgtttca ctagatggca atccagaatt gtgtggagga gccatggatt 360

tgcatatgcc ttctgtccat gatacttcaa aaagagtagg tagatcaaac ttattgatca 420
 aaatattgat cccaattttt gggttcat 448

<210> 16891
 <211> 481
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-024-Q1-K1-E3

<400> 16891

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 taacattgcg atcagttagc aaggacgtgg tggatggaaa gaggaaaagg caggagctcc 180
 ctgatgggtc tggctggggg gaccatatac aattgcttca gatatttgaa agctgggacc 240
 aaactggcta tgacacaaaa tgggtgctctc atcatgattt gcagggtcgg ggtatgaaat 300
 tgagcaaaga tgtgaggaac caactatgtc agattattca aaaaattgca aaagggtcaa 360
 ctgatgtgga tgcaaggaaa agccggaaga atgaccctga ttatagaaag ctgangagag 420
 ctctctgcgt angatatggt aaccagctag ctgagaggat gctgcatcac aatggctacc 480
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<210> 16892
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E6

<400> 16892

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 cgtctacgtc ggtggaacca ctgggcttct gatctgggcc gtcaccctcg ctgggatacct 180
 cggcgggcgc gccctactcg tctacaacac cagcgccctc tacggctaag gatatccaat 240
 gcatgcgctt cttgcgattc gtcatgtaaa atcagggtgt ctgtctataa tctagcctcc 300
 atggatgctc aaccttcgtc atgtaacaat tatcagtgtc actctgcata cataattttg 360

atgctatat

369

<210> 16893

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-E7

<400> 16893

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acagattgtg tatgtgtgtg tctgtttttt cagaagtttt accttgcgta ggccagattt 120

gtcgattctt agtcgtctgt atttggctgt attcaattga attgtgaaat gtatcagttg 180

aagttatgcg tagacattca cttcaaaaaa ctatgacaca aaatgggtgct ctcacatga 240

ttttgcaagt gccaaagtatg aaattgaaca aagat 275

<210> 16894

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F1

<400> 16894

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cggtaactga atctgatgct gtggatgccg tagagattgc tcttcagcgt tactcggcgg 180

atgttactac cagggctatg tgtcttgtct ctcttttgaa gctttcttcc cggtttccac 240

caacatcaga gagaataaaa gaaatagttg cgcaaaataa agggaataact gtgcttgaat 300

tgacgcaaag atctattgaa ttcagttcca ttatacaaag acatcagtcg ataaaatcat 360

ctttgcttga acgtatgcct gcattggatg aagcaaatta tttggtgaag agagctgctt 420

ctacacaggc tgcaggttca tctgtaaatt ct 452

<210> 16895

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F12

<400> 16895

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tgccattgg cggcgagccg gcgtctgcgt ggtgtacgcg cagatatgac gctgttcaac 120
aagcaggggc gcaccctgga ccgccacatc ggggacggcc ttgagctgcc tccggcggcg 180
ctgcagacgc tgggccccgc gagcatcctg ctgttcgtgc ctgtttacga ccgcgcggtg 240
gtgccggcgc tgcggtgggc gacgggcaac ccgtcggggc tgagcatgct gcagcgcgtg 300
ggcgcgggca tggcggtgtc gctggcgggc gtggcggtgg ccgcgctggt ggaggcgcgg 360
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<210> 16896

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-F2

<400> 16896

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aaagcgtgta aaccatggcg tcttcgcgt gccgcaacgc tctcgtcctg cgatcgccat 120
caccgtcgtc ctcgtcctcg tctaaccgcc gcagcaccgg cgccttcgcg tccccgaacc 180
caccgcgctt cccatgcctg cgttctgcgc gtcgactcgt ccttgcgagg gcggcggcag 240
cgccggcgcc gggcgatggc cccgaggacg agtgggggcc ggagcccag ggcggttccg 300
ctgtcacggg ggccgcggtg gcggaggcgc cggaggcgag agaggtcgcg gagctcaagg 360
cgcagctaaa ggacgcgctg tacggcacgg agcggggcct gcgggcgttc agcgagtcac 420
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<210> 16897

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-024-Q1-K1-F4

<400> 16897

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caggccgggtt cctaacgcga gaggcgagga ggtgctggcg aagaagtaca ggatcaggct 120

gaggggggatc gatgcgcccc agagcgcgat gccgtatggc aaggaagcca aggagggcgt 180

gtctaaactt gtccagggga agagcttgaa ggtctacgtg tacgacgagg accggtacgg 240

tagatgcgtc ggagacatct actgcgacgg ggtatttgtg caggagcaaa tgctgaagaa 300

gggttttcgcy tggcactaca ccgntacga tcaacgcccc gagctggcca agtgggagaa 360

acaagcgcag accggccgga agggcctgtg ggcggcgctc aagccacaga aaccatggga 420

gtggaggaag gacaagcgca acgggacagc atgaacaaac ccncccgctgc at 472

<210> 16898

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G1

<400> 16898

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gtacgcactg aagccgagta ccaagcaaact gacataaact aacatgcaga ctagacaacc 120

caactgaata catgtatctc aatgcatcat tctgcaatca tctttactga aaaatattaa 180

accgctcgat acacgaacct tttcttttcg taagattcat aatatagata gtcactgaca 240

tgttctatt 249

<210> 16899

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-024-Q1-K1-G3

<400> 16899

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gattcaccgg ttggagctgg attttgcttg gcgagagatc ccaaaggcta cgatgtcgga 120

gacatctcgg cctcactgca gctacaggaa ttcctcatca agtggttcag tgatcatccc 180

gagtacctcg cgaatccttt ctacattggc ggggactcct atgtcggaaa aatcgtgccg 240
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 aaaggctatc tgggtgggtaa cccaatcacg ggcgaaagta tagatttcac ttccagagtg 360
 ccctacgctc atggagtcg tcatcatatca gatcaattgt atgagacgat attggggcat 420
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<210> 16900
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-024-Q1-K1-H1
 <400> 16900

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 cgacttcgcg ctcggtattga agcaatgtcg tcggacgacg aggtcaggga ggagaatgag 180
 ctcgacctct tctccaacga tgtcgtcacc aagtacaaga ctgccgacca aatcctgaac 240
 aacgctctga agctgggtgt gtctgagtgc aagcccaaag ccaagattgt tgacctttgt 300
 gagaaagggtg actctttcat aagagagcaa actgggaatg tctacaagaa tgcaaagagg 360
 aagattgaaa ggggcattgc tttccaacc tgtgtttctg tgaacaacac agtctggcac 420
 ttctccccgc ttaccacaga tgatg 445

<210> 16901
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-025-Q1-K1-A12
 <400> 16901

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 ggcgtcggat gttgagtacc gctgcttcgt cggcggcctc gcctgggcca cggacgacca 180
 ctccctccac aacgccttca gcacctacg cgaggctctc gagtccaaga tcctcctcga 240

tcgggagacg cagaggttcc gcggtattcg cttcggcacc ttctgcacgg aggaggcgat 300
gcggaacgcc atcg 314

<210> 16902
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-025-Q1-K1-A5

<400> 16902

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ccgtcctcca ccagtcaact cgccgcctc ggacgcgtcg ccgcgcctgg ccgccgcccc 180
gccgcgcagc gccagctgc tcgtctgcaa ggcccgggaag caggaagccg ccgcggacca 240
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cgccaaagtg ggtcctgccg ccgcggcata cggagaagca gccaacgtgt tcggcaagcc 360
caaggcgagc acggagtaca 380

<210> 16903
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-A8

<400> 16903

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acacatcgat catgagcata cgccggctgg tgcaactact acacgcctac gatctgaaca 180
agtagagtac agagaagacc aactgttca ctcgacggac ggacgaacga atggatggat 240
ctgatggtag tacacatgta cggcggttgc cagtcagtta gttgccgggg acgaagtctg 300
tggcgtatgc ccaggcggtg ttggcgacgg ggtctgcgac gtggtcgaag aggttctcga 360
tggggcc 367

<210> 16904
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B10

<400> 16904

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gggtccactgg cgaggatgat cttggaaagc agtcgatttc cccaccagcc cttagtggcg 180
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gccggacaga gcacatgttc tttgcttcag acgagaggat taaggctgtc aggcagatga 360
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<210> 16905
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-B9

<400> 16905

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cacggacgac cactccctcc acaacgcctt cagcacctac ggcgaggtcc tcgagtccaa 180
gatcatcctc gatcgggaga cgcagaggtc ccgcggcttc ggcttcgtca ccttctccac 240
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catcacgctc aacgaggccc agtcccgcgg cgcccggtga ggcggcgggc gcggctacgg 360
tggtggccgt ggaggcgggc gctacggcgg tggcgggcgc cgtgatggcg gc 412
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<210> 16906
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D12

<400> 16906

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gtgtgtaatc tggttgcaaa taacaaacct ctgttcctcc ctgctgctgt tgtccgtgcg 180
atcatgattc agaactggcg tgggcgccaa taactcagaa gagagacttg ctgt 234

<210> 16907

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D2

<400> 16907

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ggcatcgccg ggggtatttt cctgaccttc agcgcgccaa ttctgatcat tgcgcttctc 360
gcatatgtgt acatctcctt cttcccaggt gagcatgtgg tggagaaaag gaagctgcgc 420
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<210> 16908

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-D6

<400> 16908

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aacggctaac agcaatttta cactctacta gggctacatc gatccgagcg tcattcctac 120
tcgacgactc aacaaaatcc tgggcgtggg aaagagtgtc ctacgacctc ggcagtatct 180

tgccgttata catcttgtcg agcagctgct tggcttctgg gcgtcgcagg agcccccttgt 240
 tgtttggcag gccagttccg agacagacag ggcacaccaa ctttccccgg ccgtaacaaa 300
 ttcggcactc ggtgaattca taaacatctt tcgccctctt ccgattgagg gccttccatt 360
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<210> 16909

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E2

<400> 16909

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 cgcgccagcg cagtatggtg acggcgatcg cgggtggcgtc ggcggggctc gggatgctgg 180
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 ccggcggggg ccccgcgctg cgctggggcg gaggcggagg cgcgccgcg tgcgaggcgt 300
 gcggtgggtc gggcaaggag gactgccgcc tctgcgcgcg ctggtccgac gccggcgccc 360
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<210> 16910

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-E7

<400> 16910

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 ttcgcgacac catgagctcc acggagtgcg gcggccgagg ctgcggcgcc aagacgtcgt 120
 ggcctgatgt ggtctggctg agcgtggagg acgccaagaa ggtgatcctc atggacaagc 180
 cggacgcoga catcgtggtg ctgaccgtct gcttcgaggt gaccgcggat tatcgcccta 240
 accgtgtacg catc 254

<210> 16911
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-F11

 <400> 16911

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 atgcgccaca gaaactcgca cgccggggccc cgccgtccgg cccgagtcgc cgtcgctgcc 120
 gaatccaatc catggctccg cccgccgaac ccaccgcgct gcaccaccgc acgccccctcc 180
 tgctcccccg ccgcaccgta gtcttgggtg ccaccgccac cgcgcgcgcc gtcagggccg 240
 cttctctcga cgtcagggcc cagccggaca ccaccgacgc agccgtctcc acctccgcgc 300
 ctgagccggc gcccgagtcc aagcctgcgc cgggggttaa ggcgcccag cccaagaggt 360
 acgatgtcaa gtccggccag gtgggcagcg ttc 393

<210> 16912
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-025-Q1-K1-G8

 <400> 16912

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 gtatgtactg aactgtacaa gcttatcgag aaagatcact gcgagtctac aacaatccac 120
 acccaacaca ggcggtggac acaaccatc caataatctt tcatgagtac agtgtcggag 180
 tcatcggccca atttcttcaa aattatcatt aatttatgat gttcatgtaa ctatagtcgt 240
 aggataaggc agggccggtt tggtttcac acgcggatgg gagcaccttc ttgacgatct 300
 catcactgag cgaggcgatc tgggcgtcga ggccttaac agcctcctcc ttctgcgcct 360
 cgaggttggc gagegcctct acgagctcgg cctccacacg gctgcgcccc tcgtccagct 420
 tggcc 425

<210> 16913
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H10

<400> 16913

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gcagcgcttg caggaagagg gttggactta cgggattcaa ctgccggtgt gggaacttgt 120
actgcgcact ccaccgctac tccgacaagc acgactgcaa gttcgactac cggactgctg 180
ccagggacgc cattgccaa gctaataccg tggatgaagg agacaagctc gacaagatct 240
aggggggggt ccctacgggt gggatatcagg aagattgtaa accgcggtaa ctcgatcatgc 300
ggaaactgctg ccttgcccc cgcgcctttc tcttccatgt ttgctgctac aatcttggtg 360
ttgggcattg cagtgcacgg tgcacacttg tgtagcccg ctcgagaatt tcttgctttt 420
gcatctggtc agttctaaaa tgatttgcac gttgg 455

<210> 16914

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-025-Q1-K1-H5

<400> 16914

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cttttgatg gaaactacac tgcaaaagtt tcagattttg gtgctgaag gttggttcct 120
attgaccaa cccatgttgt tacgaatatt caaggcactt ttggctactt agatcctgag 180
tactatcaca ctgggcaact aaatgagaaa agtgatgtgt atagctttgg agtggactt 240
gtggagctac tccttcgaaa gaagccggtt ttacaaaatg agactgggac aaaagcaaaa 300
tctgtccaac tatttccttt gggaaaagaa gatgaaacct gttacagaga tagtggctgc 360
tcaagttctt gaggaagcaa cataagaaga aattaacatt attgccttcc t 411

<210> 16915

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-A1

<400> 16915

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 cttgcccgtg ttgctcactt ctgagtccgt acgcgcgagc tcccaagagc tagccatggc 120
 gtccaccacc ctctcctcgc acttcaccct cctatcccgc ccctccacct ccccggtgcc 180
 cggcgccctag ctcccagagt cctaccacgc cgcgccccac attcgccggg gccgtcgcgc 240
 cgtctccgtc acgtgcaccg ccaccgagtc cccaagatc ctgaacctcg agaaccat 300
 ccccggccta accctcaagg aggcccgcaa cctcctcgac cacctccaga accggttcg 360
 agtcacgcc gtggacttcg gcccgccgc ccttgaagg gccccgggt cgaacgctg 420
 gcccggtcc aagaaggagc cccccttc 448

<210> 16916
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-A2
 <400> 16916

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 ccaaatactc gtcgctcgc gacgaccgc gccggcgccg ccgaggctga cccgcctctg 120
 tccgatgcc ccacgcgcgc cgcgcgcgc gccgcctgct cccgcgcgcg gagggcccg 180
 cttcggcgac tccgcgcgtg tgctgctcgc gctggcgcg ctctacgcgc ccatgtcgt 240
 cctcgctac cgcgtcatcc acatgcgcca cgtcg 275

<210> 16917
 <211> 499
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-B8
 <400> 16917

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 cttgctggtt catccttggg atcggctctg tcgtccccta gctagttcgt tcggtgctgt 180

ggttttctgcc gctatatcca agaactcttg ctcttgctga gtctggactc tgggacttca 240
 gtcccttgca gagccaggct ttacatatct tgggtgccgc acacagtatc tatgcacctt 300
 tgacaacacc aatctgattc tgatgacaac aacagccact atctcccgtc atccttgcat 360
 cgatctgtca gctggcgctc cctcgtgctt ctgaagacga tggccacatt cttctccact 420
 tccacgaacc agagggacct cgccggaggc ggcggcgaca tgctgctggt ccaccactac 480
 gcctactcgg acccaccag 499

<210> 16918
 <211> 291
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-C1

<400> 16918
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 attcctagca gtagecgacg cgctggcggg tgccggtcat atcccgcga cgggtgtggc 120
 ggctgctgct catctacggc cattcgctcg cctcgtcgtc agcctcaatc ccgtctggag 180
 cttgtctgtc taccgacca gattacccgg tgctgctgcc gatccagcgc cttactgaa 240
 ctaaaggaaa aaggcgact agattaataa caccatgggt ccaagaaaca t 291

<210> 16919
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-026-Q1-K1-C11

<400> 16919
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 acctgtgctt ccaaacggtg gggggcttca cgcccgccac gctgaaccac ggcatgcacc 120
 cgccggtctt tccaagccc aactggcgca agctcatgga cgagatggcg gtcgtggcca 180
 cggaggagtc ccgctcggtc atcgtcaagg agccgcgctt cgtcgagtac ttcagatcgg 240
 ctacaccgga gaccgagtac gggaggatga acatcagcag ccggacagcc aagaggaggc 300
 ccggcgggcg catcacgacc ctgcgcgcca tcccctggat catctcgtgg actcagacca 360

ggttccacct tcccgtgtgg ctgggagtcg

390

<210> 16920

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-C12

<400> 16920

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ctgatgaagt gggcctaact ggaatcagca gcagctatcc aactgaggga aatgagagtt 120

cacaacctga tattgaggta gcagcgtcag tatcttgcaa cttgggtcca gatttggtc 180

cacaagctgc ttctgatgat ttccacatat cagatcctca ctctttacgt cctgaaaaca 240

agggtgcac caacagtcgg agtccaata acttgtgcac agatcctttt gctgcagaag 300

caaaggaagc tcgatgtgtg aagctactaa cagagaataa ttcccaagaa ccctgtaagt 360

ggatttctgc tgctggacac ttgtcacaga agttgggttc ctgttggaag gaaagagact 420

tgcaatggga tctgnttaga tgtctc 446

<210> 16921

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-C2

<400> 16921

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cacctcaca cctgagctc gccaaaggaac ggtgtgcgca attccggcgc cggcaccatg 120

agtaagctgc atactgattc tctgaggac accattgcct caattaccaa tgattcccg 180

gagaagcagc tcaaatttgt tgaaaccatt gagctacaaa ttggactgaa gaactatgac 240

cctcaacagg acatgcgctt aagcgggttct gtcaagctgc ctcacatgcc tcgccctacg 300

atgaacgttt gcatgcttgg tgatgctcag catgttcagg aggcacagat aatgggtata 360

gacaatat 368

<210> 16922
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-D7

<400> 16922

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 ccatgaagaa cctcatgcc aaggcctggg acgagcttgt tgagaactgc aacatcctgc 120
 agagccacta caaggaaatg catgatatcg agttcactgt ccaggaaaac aagctgtgga 180
 tgttgcaagt cagcacagg aaacgtactg gcaaaaatgc cgcgaagatc gccgtggaca 240
 tgggttaacga gtgccttgta gagccccgct cagcgatcaa gatgctagag ccaggccacc 300
 tcgaccagct tctccatgct cagattgaga acccttcagc gtacaagggt caagtcattg 360
 ccactggact g 371

<210> 16923
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-E1

<400> 16923

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 ctctcattca gagatgggct cgtggaccgc gcctgcctgc agcacaggaa ggcccagcca 120
 atctatcaag ccttgccgcc ttaagtcgta tgtcatgtcg tttgattccg atacgctcca 180
 gaggtatgcy acagtcaggt caaaggaggc cttcggcatc attgagaagc acacggaagc 240
 gctatttggg aagccagaga ttgtgatcac acctgaaggc acccttgatt cttccaagga 300
 tgagcatatt acgataagct ttgctgggct g 331

<210> 16924
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-E3

<400> 16924

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tcccattctg cctgtgacta gcagtgaaca gggcagatgg caaatgtgga gcacgccatt 120

ggttcaggaa agtttaggtt tgcaagggtc tcagagtcag tggtttcaac aaaacacaaa 180

tcaatttaac catagtgcta accttttcag tagtgaaggc agggcaagaa gtcccctggg 240

tactggtttg aatgacagtg atccatggct tcagaaagca ctttttcaac aattgccacc 300

tgatacatca agcctggtnc tttcacatga aatgccagaa aattggcca atgcttggct 360

tttgggtctt caaaccaaat aaccgggaa caaccctttt ggccaacttg gtaattggtg 420

gcttaaggag gacctgggct tg 442

<210> 16925

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-E4

<400> 16925

gaattccccg ggcgaaaacc gctgactctg taagcagatt gcgtcaagct ttcactgcgg 60

taccgatata cgctagagct caagacctgt ggcattgtgct agatcttaag aaagcaggcg 120

caacagacgt tgtcctggaa aatgccgaga ccagcttgca gctaggttca atacttttga 180

aaggactggg cgtcatgtct gatgatgtat cttctttgag taagcttgtg agggactcaa 240

tggagctaca agctcaagaa gcactgaaag acattgcgga ccaagaagtt gatattatg 299

<210> 16926

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-026-Q1-K1-E5

<400> 16926

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aggagccgca ggccaccttc tccgctgct tcggcgcggc cttcatcatg ctccaccgca 180

ccaagtacgc cgccatgctc gccgagaaga tgcagaagta cggcgccacc gggcggctcg 240
tcaacaccgg ctggctcgggt ggcaggtaca gcgtgggcaa gaggatcagg cttccctaca 300
ccagaaagat catcgacgcc atccactccg gcgagctcct caccgncaac taccagaaga 360
ccgaggtggt tggcctggag atccccactg agatcaacgg cgtgccgtcg gaaatcctcg 420
acccgatcaa cacctggacg gacaaggccg cgtac 455

<210> 16927

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F1

<400> 16927

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ctcgggatgc ccgcggatgc tacttgtgcg ggcattgcgtt gcaactctgg caccgattcc 120
gttccttcct tgcggcggcg gcggaaaaac aggagcttct ccatccttcc cttcgttcgt 180
gctcttcttc ttgttattcc gtttatcggc ctggcgcaga aagaaacaag agatgcgac 240
tagtctgcta ccggagtccc cgtacgtacc cagtgcctcg cggcttcggc aggggtgctg 300
ctggctgcag acgctgatct gtatccaccc ggcaaccgcc gtccgggttc ttcattgtaa 360
ccggggaaga atttggggct ggtggcttgt ggtttcaatg ggcttcacca gaaaccagaa 420
cctttttggc aatttccttg gggttcaaaa 450

<210> 16928

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-026-Q1-K1-F4

<400> 16928

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ctgggttggg atatattata tgatgacgat gagaactaag tacaagtgtc tttatttttt 120
attattccta aagacaactt ttgtatatgt aacatcatga atgtttgagg tgtctcatgt 180
gtaactttaa ttaatatcaa tttatgcatg aaatattatg gatggttcaa a 231

<210> 16929
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-026-Q1-K1-G3

<400> 16929

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 tcgggtgagc cagcccatcc acctcgctcc ctcgaccgac ccaccagcc cagcgcgagc 120
 tcgcatggcg atgctgctcc gcaagggtgtg gggctccgtg ctggctcgcg ccgcagcgtc 180
 gggggccgac ccgcggggcc gccgcgcgca tgcgcatcgt gcggagcagt accagtacca 240
 cggctcgcta tcgctgggcg cgctcgacgc cgatcncacc gacgtgctcg accagatcct 300
 gcgcctgctg gtccccgctc gac 323

<210> 16930
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-H3

<400> 16930

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 gcccacacga ctattctatc tagagtacag gcgacttcaa aacagacaca cagtcccgcg 120
 ctgcctgata tctgaccttg ttgacaacta ccgaaactcc aaccacctga tcgcggacac 180
 cgtatcttcc tgactgagcc ttgaaccac cgttcaccac cagtcccgcg ctttctctta 240
 gtgtgacact gacgaaca 258

<210> 16931
 <211> 57
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-026-Q1-K1-H4

 <400> 16931

gacgccccct gtagcttcac attaaccaact gcccggtgtga tctgctactc gcatacc 57

<210> 16932
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A1

<400> 16932

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cgcccggtgct gtacgtttcg tcgtggaaag aaccctgggg tgtgtatttg tttcatcaat 120
catgccagcc gatttgaatc tcgtttcacc agcatgatct gatttgggta tacaagtata 180
aaccgcaacg agcgatcttg taaaaagag 209

<210> 16933
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A2

<400> 16933

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ctagtgcacc cactacgtga cgtcggtagag gtgcgcctac ttgctgcgcg cgcccgacat 120
gcgtacgccc gtgatcgtgc gcttctagac tgtgatccac gagcgggtggt gcttgaagac 180
gatgcgcgac ccgcgcgggtt tcggcgtgaa gttctacacg cgatagggca actggaacct 240
gctgggcaac aactgtcggg tgttc 265

<210> 16934
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-A3

<400> 16934

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ataggaaaag ggcaaaagcc aaaaggcatg agcgcgcgca cgacgatggc agcctcgctc 120

caagccgcgg ccacctgat gcagccggcc aagatcggcg gccgggcgcc ctttgcctcg 180
 ctgccgtccc gcccgtcgtc gcaactcgcc tgcagggcgt tcggcgtcga cgccggcgcc 240
 gacaggatca cgtgctccct gcacgacgtc gccagcaggt gcgtcgacgc cgccaagcta 300
 gccggcttcg cgctcgccac ctcggcgctc ctagtctcgg gcgcgagcgc ggagggcacg 360
 cccaagaggc tgacctacga cgagatccag agcataacgt acatggaggt gaaaggcacg 420
 ggcacgg 427

<210> 16935
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-B5

<400> 16935
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 gggcgacacg tacgccgatg cggtcgagtgc cggaacgaa cttcaccgg cggggaagct 120
 caatacaggc acgatgcac caggcacaaa tcgatcgatt tagaaacaag aatcaaaggt 180
 gtgcgagccg agagacgaac acgagagcaa atccttcctt aatattcatg gacagcgcaa 240
 cgctgacctg caacaaccga agccgaccac aggcattccgc aagacagcaa gtgaagctca 300
 gatcggcgaa ctgcggcctt atgcgcttcg cctaggagcc tacggagtac tgagaacaga 360
 gcagcggagg atcatggcac accttcaatt cttgcggcgc cagaagcagc ggagcttgag 420
 ccggcgcgct aggacattgg cgatcg 446

<210> 16936
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-027-Q1-K1-C3

<400> 16936
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 ggctgggggtg gggacctaaa acgcatgga tgtgcagccc taggcaccag atattaggat 120
 ggatggagtc acacaagctg ttgaaaatct taagaaagaa tggggccaag cagtttcaca 180

gcttgacgag aacattactg caatcaaatac atgtggaaaa acagggaaaag ggacagagga 240
agcaaattct cttccaaggt tgaatggttc tgcacaggat gctctgcagt tgctgaagtc 300
actgcagttc cagctggatc ttctagcaca gcagcttccc acttttgatg aggtgcagtc 360
tgggtcaagca accttgaagt catgggatga acaatacaag aagcttcgta ttagcttgag 420
gaatgc 426

<210> 16937
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-C7

<400> 16937

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atggcagcct cgctccaagc cgcgccacc ctgatgcagc cggccaagat cggcggcccg 120
gcgccctttg cctcgctgcc gtcccgcccg tgcgcgaac tcgcctgcag ggcggtccgc 180
gtcgacgcg gcgcgccag gatcacgtgc tccctgcagg acgtagccag caggtgcgtc 240
gacgccgca agctcgccg cttcgcgct gccacctcg cgctcctcgt ctcgggcgcg 300
agcgcggagg gcacgccc aaaggctgacc tacgacgaga tccagagcaa aacgtacatg 360
gaggtgaatg gcacgggcac ggccaaccag tgcccgacca tcgac 405

<210> 16938
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D12

<400> 16938

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atttactgca acacaagcct tttagctgtg tcgaccgctg actattggat cacaagcact 120
gccattctt atttacagca cttggcaaaa ccactttaac acaccacatg ggctactcca 180
tctactgct atgagcgccc aactaagtgt ctactctata ctacgcttgc ttcccttaac 240
tgagcctgct caaggccacc actatgttcc cttagctcac gattccctgg atcgaacctt 300

tctactacat ctcggtctcc aagaacgcct acaacacgtg ataagctctt tggcacgtag 360
acacgctgaa agcttattgg aacaa 385

<210> 16939
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-D9

<400> 16939

cggattcccc ggtcgacccc gcgtccggtg ccgctgcttc gtccctctat ctatctagcc 60
ttcccgggtcc tgcattcccag ctgaggttgg cacgctcaac acgccggctg cgtcggcgcc 120
ggctactctt ctgctgctgg tcgcgccgct cgccgacgct gccgacagca tggtcacgt 180
ctactacagg gatccgag 198

<210> 16940
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-027-Q1-K1-F2

<400> 16940

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ccaccgcacc cgcgaacttg ccgggccgct cggcgctgca caccaagccc ggggatggcc 180
gccgcgcttg cgagctcgcc gcttggtcac ctaactacct cccgtctccg cctccccagg 240
ccccaagcct ccgcttcag ttccgggtcca gtctgctega tcggcggtg cttgggatgg 300
aggctcaagg tcgggtggag agccctgagg cggcgcgacc ggcttcgatg cttctccacc 360
gacggtggcg gccgngagg agggggaaaa gcgtggcgag gaggaagcat cggcaac 417

<210> 16941
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-F9

<400> 16941
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 gtatctcccg agaaggggtg tgagaaggag tagtatactc aatgtccacg ggaggaagct 120
 gttgatgctg aggtcctcat tgaccgacgt gccagcagag gtcccggcgg tccaggtggc 180
 cgatgcgccc aaagcgaaaa atgcgcccac agagaagaag gcgcctaagg agaagaagct 240
 ttccgcggcg aaaaagccgg cggcgcaccc tacctacgct gagatgattg tagaggcgat 300
 cgctgccctc aaggagagga aggtgtcgag ctcggtggcc atcatcaagt acgtctaggg 360
 tgagcatggc ggcaaagctc acaccaactt gcgcaagcag ctcaactgtgc agctgaagaa 420
 gctcgc 426

<210> 16942
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-G10

<400> 16942
 tgcgccatgg ccaccaaagc aggtcctca ctgtcgccat gcacaggct cgtggaggaa 60
 tccctgctcc tcccgacgca agacgccggc ctcttcgcaa aggccttcgt gctcatcttc 120
 gccacacct tctcttcat cgcggtcgcc gtccacttcg ctcaccact cgcacggac 180
 atcctcgccg acatcaaagc acaaaggagc agcagcagga cactaccac taccggcgcc 240
 gcgagctcaa accactcaa ggagcttgcg ttgctagcga tctacctctg ctacctcgcg 300
 agcaaactcg ccaccagct cgtcaccgcc ctgccaccg ccacgaccta ctccggcgag 360
 cgcctcacgc gtaaagtggc catggagagg at 392

<210> 16943
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H11

<400> 16943
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acgacctgtg gtacggcccg gaccgcgtca agtacctggg ccccttctcc gcccagacgc 120
cctcgtacct gaccggcgag ttccccggcg actacggctg ggacaccgcc gggctgtccg 180
cggacccgga ggcgttcgcg cggaacaggg cgctggaggt gatccacggg cgggtgggcga 240
tgctgggtgc gctgggtgc atcaccccg aggtgctgga gaagtgcgtg cgcgtggact 300
tcaaggagcc cgtgtggttc aaggccggcg cgcagatctt ctcgagggc gggctggact 360
acctgggcaa cccaacctg gtgcacgcgc agagcatcct ggccgtgctc ggctttcaag 420
tcat 424

<210> 16944

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-027-Q1-K1-H2

<400> 16944

gtaccggttc ggaattcctg catacaagca cttggacgtg acacgggccc ttcacacagt 60
acacttcaag cgttggcacc aatggcttac taacaagaag gtgactaacg gtccgaagaa 120
ggtaaggccg ttggccccgg ccggtttcgg cggcaacggc ggccggc 166

<210> 16945

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B4

<400> 16945

tgaccgtcca tcgtcctgtt cagggttccg atttccgccc aacaatccgc cgccgccaac 60
aatgcttcgt cgttccatcc ttccaagccc ttgcactacg tactatcgta gccctctttt 120
ctttatagct ggtgttgtct attttgattt ggtaattcag gccccgtaga atgttttctt 180
ttgttttatg catgcaaagg tcgatttggg gataggagcg gtgatgattt tgtggactag 240
agtttccgat actaccacgg tagtatttga cgaccaaacc cttggctgtc tgagctccta 300
aatcacagtc ttcgaccact tcgctgttta tatatatata tgcgagatct gcggtcttta 360
ttttcttctg caatgcaatg gtatgatga 389

<210> 16946
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-B6

 <400> 16946

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 aacagcgccg caccacctcg tgcggtgagg gatcgatctc atcgatgcga cgctcctcgg 120
 agagcagcgc ctctcctcgc gcggtcttct ttggcgcgag ggcgggaggg acggatggcg 180
 ccgaggatga tgcggcggt taggatctag ggtaggggt cgccgccgcc gtctgagctg 240
 ctgcgtcgag gttgctgggg tcggaaccgg tagcagctgc tgcggaattc gcggagaccg 300
 ccgacgtgcc ggccttggcg aggacctggc tgtgctcttc gcggcgcttc tggagctgct 360
 tctgctccag ctccgacc 378

<210> 16947
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-028-Q1-K1-B7

 <400> 16947

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 cagacacgat ggcgatctgc agcgcgaca cgaccacggg cctgcgctcc ccatgcacga 120
 ccgtctcgaa cgcaggtctg aggcagaagc aagtcattct cgtcaccagc aacaggagga 180
 gcggcgccgg caggaggcac ggaggggcaa ggagcttcca ggtctcgtgc tccgtcgaca 240
 agccggtggt gattggcctg gcggcagact cagggtgagg caagagcacc ttcattgcgc 300
 ggctcaccag cgtcttcggg ggcggcgagg agccgcccaa gggcggaac ccggactcca 360
 acacgctcat cagtgcacac acgacagtga tatgcctcga cgactaccat tcctggaca 420
 ggaacggc 428

<210> 16948
 <211> 282

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-B8

<400> 16948

aaaaagaaaa aaaaaaaaaa aaaataaaaa ataaaaaaaa aaaaaaaaaa aaaaaaaggg 60
 caacggtttc tatctgttcc atgcttacgt acctttcctt ccaatatctt acttcttcta 120
 tcttttcacc taattttcaat tcactggcct tactttttaca acttctacaa ttgggaaaaac 180
 cctaaatgcc acccacttta cttcgcttc cacccttcc ctttttcccc attctcctta 240
 ttaccataa tcccacatcc tatctccttt cccatcattt cc 282

<210> 16949
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-C3

<400> 16949

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 cgagctcgga gcttcttctt cctgctcgg tgctcgtggc aacgagctgc cgccatgtct 120
 gccgggaacc agctcgccgc tctggtcagc aacatgtacg ccacggggtt gcttgacgat 180
 cagttccagc agctccagct gctccaggac cccagcgccc ctgacttcgt ctccgaggtc 240
 gtcacgctct tctgtcagga cggcgagcgg atcatcgaag agctggccaa actgctggag 300
 aagcccaacg tggattttga cagggttgac gcctttgtgc atcagctcaa gggaagcaat 360
 gcaaataattg gtgctc 376

<210> 16950
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-D11

<400> 16950

tgcttatccc ctctcctcc cagtcccagc catcgctcc cgatggcgtc cctcgtgacg 60
 ctccccgcca tcgggttctc taaccccgcc acagcctccg gcgctgtccg cctacgcgcc 120

goggccttcc gctgctgggc gctccggcgg cgcggtggg cggtggcggc tgccgtggcc 180
 tcgcccact ccgtgctcag cgagcacgcc ttcaagcggc tccagctcgg gaggtagcag 240
 gaggacgaag aagggccgta cgggagcgac gccgacgagg ggttccaggg ggacgaggag 300
 gagctcgcca ttgccaggct cggcctgccc gacgagctcg tcgccacgct cgagaagcgc 360
 gggattacgc acctgttccc catacagagg gctgtgttga ttc 403

<210> 16951

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E11

<400> 16951

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 ggacattcag cagtcggcgc ctccgcaatc aggcgttcgc accaactaat ccagcctttt 120
 gagctgttga ctgtccaata tggccccctg tacatgatta cccaatcaac actctgggga 180
 tgcggacaag gtgctaaaat cagctgatca tgggtttttt ctttatttct attgtgtaca 240
 cgtacaatcc caaccaacgt tttccccttg ttcccatctg attataggct tgtgtatact 300
 gtgggggttaa atgattaata aattctggtg ttagctaatac aaacatac 348

<210> 16952

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-E7

<400> 16952

actaaaacct atcgtctgag tatcaggcta atgacatttt gtctttacaa tactgtgatg 60
 caataaaact gggcaaacca ttgataccac cgtatacagt aactcaatac catccaattc 120
 tatgaggatt aaaaatgtat tggaatggat tggatgtat tttgacttgc tataaattta 180
 aaccaactca ataccatcca attcacttag attaacggtg aaacgaacaa ggcctaaggg 240
 gagtggtaac agtctaacat cattgtacaa cagcctttcc gaagcccata gacattgtga 300
 gacaagatcc gtaaaccatg aatcgttctt cacttaggat gaccatctta gctggtcacg 360

aaatggtacc gggaatccac aaatctctca acgtcccaga ggaacgatcc tg 412

<210> 16953

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F7

<400> 16953

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tcccccaagg gccgcgggga tgaaccggat cccgtccgtc tcgctgcggg gcggcggggc 120

gaacgaggac gccgcggcgg cgctcgccgcc cccccgatcc cgcggcgctg tcgcggtggg 180

tgcgggcctt ctgtgtcatc cgttctgacc tgaagcgcgg ccagctgttg aaggcctgtt 240

tccttc 246

<210> 16954

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-F8

<400> 16954

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gcaaatacgt tccacacatt acagcaagcg gattaggaca attcgggcta cattaagcaa 120

ataaaaagcta cagatttaca gtactagcac atgtgttggt gaagtcggct gatttcatct 180

ttccaccaga ccaccactga cccctatgta cagcacacag acaaccatcg catccacacc 240

cacactacca acctaggtat ccagtttctg gcagtacgta caccagatcc ttccatatata 300

tgcatgaacc aacataaggc atcaagctat catcacaaa tcaacagagt atcatggaag 360

aatccccaaa agctgcccc tctctctctc catgaagcac acacttgga cttta 414

<210> 16955

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-028-Q1-K1-G5

<400> 16955

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ctggaccttc ctgtccaccc tcgccagcag gtccgcggca gccgatagcc tgcgcagcgc 120
cgtgccgtcc ttcgccaaga tcgtcaggtt cttgcccgcg caggcgcaga tcagccgcag 180
gcggcgcgcg gcggtgctgc ccacgccgag ggcggcgctg tcgggcaccg agaaggcgcc 240
gtcgagcaag cagcagcgcg tggtcagggc gcacagcacc caggagtctg acgacgcgct 300
caaggccgnc aagaaccggc tgggtggtggt ggagtctcg gcgagcgaca gcgaggacag 360
cagccagatc tacccgacca tgggtgcaact cagccgaacc tgcgg 405

<210> 16956

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H4

<400> 16956

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cggggaagcg ggagtttggg atgatcgaag acagcaaggc ccgtacactg gacgagagga 120
tcaagaagca gaggcgtgca ctgatgaacc tacatcttcg tcgccacgac ctgaccaagg 180
aagtgaccag gacgctcatg gacctggctg agtgatgcag tggactgagc tgagtatcat 240
ctaagaattc tattttatgg tattttaagt cactgatgat cgattaccag caaatgttgt 300
atgacctact caagcatggt aggtgaatct 330

<210> 16957

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-028-Q1-K1-H5

<400> 16957

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acgagtccac cggcgatttg ttgttttgtt cttcagtgcg tcagccaacc ttaactgcta 120

cgatcggctcg atcaaggggg aggaagtttc tggagctctg cccatggcgt cggcgatgaa 180
gctgctgggg agatctttct tggcgagccc tgctgccgcg gcgcccggac gggagcggcg 240
aggcggggccc tgcttcgccg cggtcggaag ggaggggagc gcgcacagga ggaagtcgtc 300
gctgaggtcg accgcgccgg tgggcgcgct ggccgaacgg gtcgtggtga cgccggcg 358

<210> 16958

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A10

<400> 16958

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catactttcc ctacagcccg ggcgggttca cctaccctac cgtcactcgc cccaagcac 120
tatgccaatg gcgcgccccg tataactggt cgcgagatag gactagacct tgaagcctct 180
accccttgaa gagagcgaga gatgtatcaa caggagacag ccattagagc cactcagctg 240
gaccgcaagc ggatcaaaca cgcgcatgat acacacctac tagaaggcag tctagttgcc 300
gtccacgtct agctcttcaa ccagccagca tactcgacca cacac 345

<210> 16959

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-A8

<400> 16959

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tctcgccgta tagctcctgc atcgcgagtg cggcttgccg catccgctgc ccgtggtgcc 120
gctgttctag aggctggccg acctgcagtc gacgccctcg ttcattggagc gcctcttctc 180
ggcggactga tacatggacc ggatcaaggg caagcagcag gtcattggctg gctactgcta 240
ctccgacaag gactcctgcc gactgtccac ggcgtggcag ctgtacaggg cgcattgaca 300
gatggcgcaa gtggccaagc gctacggcgt caagctcacc ttgttccacg gcctgggagg 360
caccgtggac aagggtggcg gtcccacgca ccttgccatc ctgttccage cgccggacac 420

catcaacgg

429

<210> 16960

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-B12

<400> 16960

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gaaacgaacc ttcaccggcg gggaagctca atacaggcac gatgcatcca ggcacaaatc 120
gatcgattta gaaacaagaa tcaaaggtgt gcgagccgag agacgaacac gagagcaaatt 180
ccttccttaa tattcatgga cagcgcaacg ctgacctgca acaaccgaag ccgaccacag 240
gcatccgcaa gacagcaagt gaagctcaga tcggcgaaact gcggccttct gcgcttcgcc 300
taggagccta cggagtactg agaacagagc agcggaggat catggcacac cttcaattct 360
tgccggcgcca gaagcagcgg agcttgagcc ggcgcgctag gacattggcg atcg 414

<210> 16961

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-C3

<400> 16961

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acggaggcat cgcttggggc tttccgtgat tgcgatttgc aggatatttg tctgggagac 120
taccctggag ttactgaagt ctcttaatct tgacaatcgc caaatcacag atactggttt 180
atcgtctctt acaggtctca ctggattgac acacctcgac ctatttggag ctgcataac 240
tgattctggc atgagctgct tcagattttt caagaatatt cagtccttgg aggtctgcgg 300
cgggttgatt acggatgctg gcgtgaagaa catcaaggac ctgaaagctc tgacgttact 360
caacctgtct caaaacggca agctcacaga caaaaccctg gagctgatct ccggcctgac 420
tgcaactggtg tcgttgaacg tg 442

<210> 16962

<211> 428
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-C4

<400> 16962

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 ggatatcccc atgagcaact gtctcaacag tggcatatac aagatattgn tatgactcag 180
 ttcaactcag cttctcttaa ccgtcacatt catcgtaact atcttgggtg cgggatcaac 240
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 tggttccagg gcacagcaga cgcggttaga aaatttatct gggactcga ggattattac 360
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 tacatgga 428

<210> 16963
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-C7

<400> 16963

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 atatctcttg aatgtgttga actctgggag cgacatgcca tcccaggagc agctcatgag 120
 agctgaggtg tctcttaagg aatggataga gcgagcaagt gaaaggtctt ccaggcttga 180
 tagttgcttg gcagcgctac aggagctttc tggaaacctt agcctgatga aggttaggca 240
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 aatctgcagc gtacttgtag ctgtactgtc gggtaacctt aagccactgg tggactntga 360
 tgtccctgag aaatttggtt ggtctacggc cttcattgat cttcagaaag ccataagcgg 420
 tgaacttagc aggcaactgt ccataggtag tgttgacgc 459

<210> 16964

<211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-D12

 <400> 16964

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 gcgttctcct cctcctcgct ctggcgctcg cgcgcgcggg tgccgctgcc gtcgactcgg 120
 atgaccctct gattcggcag gtggttcccg gtggagatga caacgatctg gatctgaacg 180
 cggagtccca cttcctgagc ttcgtgcagc ggttcggcaa gtcctacaag gacgccgacg 240
 agcacgcgta ccggtgtgcc gttttcaagg ccaacctgct ccgcgcgcgc cggcaccagc 300
 tgctggaccc gtcggcggag cacggcgta ctaagtctc cgacctcacg ccggcagagt 360
 tc 362

<210> 16965
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-D2

 <400> 16965

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 ccgggaccgg cggccgtgtg gtggtcttcc cgttcccggt ccagggccac ttcaaccogg 120
 tgatgcggtt ggccgcgcgc ctgcacgcc gaggcctcgc gattaccgtc ttccacagcg 180
 gcgccctgga cccggccgac taccgcgcgc actaccgctt cgtgcccggt accgtggagg 240
 cagaccgaa gctgctggcg tccgaggaca tcgcgccat cgtcaccacg ctgaacgcca 300
 gctgcgacgc ccccttcagg gccgcctct cggcgctgct ggccgccgag gggagggaca 360
 gcgtccggtg cgtcttcacc gacgtcagct gga 393

<210> 16966
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-D3

<400> 16966

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gatgcggctg gcccgcgcgc tgcacgcccg aggcctcgcg attacgtct tccacagcgg 180

ctccctggac cgggccgact accccgccga ctaccgcttc gtgcccgtga ccgtggaggc 240

agacccgaag ctgctggcgt ccgaggacat cgccgccatc gtcaccacgc tgaacgccag 300

ctgcgacgcc cccttcaggg ccgcctctc ggcgctgctg gccgtcgagg ggagggacag 360

cgtccgggtgc gtcttcaccg acgtcagctg gaacgccgtg c 401

<210> 16967

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-E4

<400> 16967

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gtcccccttc cttcattgat cgatggcatg cgtaagaacc ttccagagct gccccattgc 120

cagaagagca aagatcaaca ccaggtccag gggcagcagc agtagcgtgg cgaaggggtc 180

accaccacca gccttccagt tccagtgcag ggcgtcgact ttcgcggcgg acaccagcct 240

ccggctcgag ctggacgaga accccgaggc gatcatctcg ggggcgtggc ccgggaactg 300

ctccctcttc agctacgacg acctccgcgc ctacctcgag tcgcaggaga cggcggccca 360

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ggccacagc 429

<210> 16968

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-029-Q1-K1-F11

<400> 16968

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ctgactctga gggggagtgtg gatgaccaca aggctgtgga agagtcatcg aggaggagca 120
 ttctaggtat aaaaatcacg agagaatttg gtgaaaatgc gaccagagta caggatgggtg 180
 gcaggattgc atctgaacat acaggactgg aacccatggc agatgacatt ggttctctcca 240
 agcaagctcc tgcagatgcc agtgcaatgg ccatcgatga accatgctat gtccataatg 300
 aacctgagag ctcaactaaa ttgcaaggcc aagcatctgc gtaccacaag ccatagctgc 360
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<210> 16969

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F2

<400> 16969

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 tgaagaataa ataatactt gatcaggatt gctgtgttac cgtatgacgt ggagtaacgc 180
 gacccaacta aatacatgtt aaacagctaa atacatgact actaccagaa caatccgttc 240
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<210> 16970

<211> 461

<212> DNA

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<223> Clone ID: LIB3060-029-Q1-K1-F4

<400> 16970

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 ttttgatgat ggtggctcat gccttggccc ttttgaacct tcacccgtaa taggggtgggt 180
 aatggatcgc gatccaaatg ttcttcaca aattcttagg tccttaaata aatttttagtt 240
 caaaaatgaa tagaaataga gcccgaaact aatccgagcc tttaaatttta tagtgtaaaa 300

tttagagtcc attgtcaccc ctccgtacac agctattact aatttggtgc tgtattgata 360
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<210> 16971

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-F9

<400> 16971

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 aacctttcct tcagtgtccc caattctctca gggaccgccg gttctaagag cgtcatcaag 180
 aactccgtcg actccgtcac cttctgcacc aacacttccg gctcgtcgtc gtctgtgccg 240
 tctacccttc gtacggaggc tgagatcttg gagtcacga atgttcgcaa gtccagcttc 300
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<210> 16972

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-029-Q1-K1-G2

<400> 16972

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 cctgaattta tgctacaaaa ggatatgttg aatctcatag agacagcact ctcttctgag 180
 gttgattata gattcaagat tcaaggactt caaaacctct acgagtatct tagagatgct 240
 gaaagccaac ttactgctga gactactgcg aaacctctg ggcagtgtga aataaatggc 300
 agaagtgaag tgtctgttgc tgctgggtgt ggagacacca acatatgttg tggattatc 360
 caattgtatt ggagttctat tcttgaaagg tgcttgata caaatgatca agttcgccag 420
 agtgcactta aga 433

<210> 16973
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-029-Q1-K1-G3

 <400> 16973

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tttgtgaaca atgcccgggg ctggagtacg gcctgccgcc gttcgtcgcc gttctccggg  180
caagctgccc cgtctcgacg gaaggggtact cgtcccccca agagggttgtt aatggggaag  240
aacttctcag gttgttgat ggcaaggaag agcacacagc tgtccttttc tatgcatcat  300
ggtgcccttt ctgagaaaga atcagaccag tncctgatga tctgagctca atgtttccac  360
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atgtccgtgc ac                                                         432
  
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<210> 16974
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-029-Q1-K1-H4

 <400> 16974

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gtaactgatg aaatcataga gccattaac atgtatcata agttcgtatc aattgatgga  180
acatggataa acgaagttca tagctcctat aatgaacaga tacacgcata gtacatagac  240
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ataacagcac aggagccatg ctctttctta tcagagttca gtttcttatg acattctgct  360
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ctttcaaagt tgatg                                                         435
  
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<210> 16975
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-A11

 <400> 16975

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 accaaaattc atagtcgacg tcgtgatttc aagtttggtt tagttatggt tcgttacacg 180
 tgatgcgtaa gacaagagcc gagttgatct caatatgatg ctggtgaacg agaccagcta 240
 atggatgatc tgatcaagtg ctaggacgga cgatgctcac caagtggctg tcatctaact 300
 aactaacct aatgttatcc caggttataa gtatgttccg ctgcggatgg tgctaaatgc 360
 cgggtgggctc ggacttctta tataagtata tccgatcttt agcttattta ttgaagattg 420
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<210> 16976
 <211> 488
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-B12

 <400> 16976

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 gcgggcatg agaagcagga ggccggcgcc gtcaggcgct gcaagggcgt caacgacctc 180
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 attttcaagc ctccaaaagc tatacgtgga ggaataccaa tatgctttcc gcagttctcc 360
 aactttggga atctggaacc acatggattt gcaaggaata ggacatggag tgttgatgat 420
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 cctactga 488

<210> 16977
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B5

<400> 16977

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 atggaagaca gtgatttcca caatctgcga actgaatctc tcaagcagca atacaacttg 180
 gtcaaggata ggacagcggg tcaagataca ttcagctatg gctcccatgt gatgcaatat 240
 ggttcattgg agttgaatgt taagcatctg gtttcgtaca ttggcacaaa ccctgctaac 300
 gatgacaaca cgttcattga agacaac 327

<210> 16978
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-B9

<400> 16978

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 tgtatgtaaa gggcactgac tcggctaacc agtgctggac catcgacagt tgcttcttgt 180
 cgttatcgat caaggccggt aagaaccata tgaagaagct ttgactgtaa ccgacgtcca 240
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<210> 16979
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C11

<400> 16979

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ctccccggc ccattctcct gggcctcgag tcccacgctc gcgccccctca tcgcccgcga 120
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 ctgcccgaac ggtcgccttg ccaatcgtgc taagctcgcc atgaccttct gcctgcacta 240
 ccttcactgg gatcgcgtgt acaatgcgct gcctcccaag gaggcaccag acatggagtt 300
 cccaacgtaa gatgagagga tccagccatt tgtcgattac actgctgctg gaaatggcga 360
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<210> 16980

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-C6

<400> 16980

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 ccagcgcag atccagagcc gattccagca cccactccaa cgcgcgctgc agcaacggcc 180
 caccgacca aaaaaccca actgtaaggc cccgacaaca aaccgcttct agcctacaag 240
 gcgaatggcg gtctgaagct gctcaatccg gccaccggca gcataccccg taacgacggg 300
 caactcctaa ccataaaaca tgccagcaaa agtcgcatca acagccaaac catggccctt 360
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<210> 16981

<211> 91

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-030-Q1-K1-D1

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 aacttgatcc gccaaaggta acaacccag g 91

<210> 16982

<211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-D11

 <400> 16982

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 cgggcggcgg cgggcgcccg tggcggtgcg cgcgtcgtac gaggcggggg tgggcgtgat 180
 ggcgaccaag gtggggatga tgacctactt cgatccggag acggggaagc cgggtgccggt 240
 gaccgtggtc gggttccggg agggcggcaa cgtggtgacg catgtgaaga cggccgtcac 300
 ggacgggtac gacgccgtcc aggtcgggta ccac 334

<210> 16983
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-D12

 <400> 16983

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 gttttcgatc caatcgaacc ctaacatcgg tggatccatc atcatcacag ctcaacaaca 180
 catgtactta attaacaaca acggttggac gcttgttggg tgcttaatcc tgctaattaa 240
 cacgtacta gcaaaaacac gagaagatga tgatgaacag gagcagaagc tcggtatcat 300
 ca 302

<210> 16984
 <211> 317
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-030-Q1-K1-D6

 <400> 16984

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ttcgcgagcc cttcaccgca gtatgacact tgcttgggag acctgtatag tgttgcttgg 120
 atggaagaca gtgatttcca caatctgcga actgaatctt tcagccacca atccacctgg 180
 tccaagggtta gaaaagtgtt caaggttcca tcaacttttg gttccaattt aatccattat 240
 ggtaattga attggaatgt aaaccttttg tttcgtacca ttgccccaaa ccttggttacc 300
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<210> 16985
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-G1
 <400> 16985

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 ttatctggaa ccccggttc gacttcgacg accaaattct tgggttcctc aagggttaca 300
 agcgcaactt taatcttgct tgcattgacc acagaagcac aacggagcat tcggcgagga 360
 cctggacgct tgaaaccgac gaccaagcca tatgctgggg aattgcatat t 411

<210> 16986
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-030-Q1-K1-G2
 <400> 16986

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 aggagcttgc cgtgcaactt aaagatgatc ttcttgccgc tgtgaaaagc aacaggagtt 180
 ctgaggctta cacatttaac catgatagta tggctcgccg tgcattaaaa aatacatgcc 240
 ttgcatacct ggcgtaattg aatgacccaa atttcgttga ccttgcaactg attgagtcca 300

agtttgcaat taccttgccg aaccagttgg ttgaattacc agcttattcc aaaattc 357

<210> 16987

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-030-Q1-K1-G4

<400> 16987

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ttcgcttggt aaaagattaa aaccgagttg tttttagtaa aaaccattta aaaaaaacgg 240
ttgaattgag gattcctgaa agaaagtttt aatcttaagt taattcatta ttcaaaaggt 300
ggttcaattt aatgggggtat tccggaatgt tccaattgga acttaaccac tggtaactaa 360
tttattaata atggatcttt taaaccagtt cttagg 396

<210> 16988

<211> 445

<212> DNA

<213> Zea mays

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<400> 16988

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cacgcttcaa gatcgtcccg gaggggtcac tacatcccta cttccgcctc tgctgctgca 180
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accggccgac aggagctgaa agatctcgtg gccgccaaga ccagcacttc aagaactgca 360
cgtgcgcaa gccaggctcg gtctcgggct cggactgagc ttcgccgcgg gcctgccccg 420
gcagccacgt ccctgccaat ggcgt 445

<210> 16989
 <211> 163
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-030-Q1-K1-H1

 <400> 16989

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 aaggagctgg caaggaagca cttcatncac catgtcttca gggagaacga cttcgaggac 120
 gggaaccaga acctgtaccg cttcttggag cacgaccccg ctg 163

<210> 16990
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-A5

 <400> 16990

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<210> 16991
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-032-Q1-K1-C5

 <400> 16991

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 tatacatgaa caccctttgg ataacttctg gtttatctat gcaactgctg gaattcattc 180
 caaaaacgcc ttcggagata aaaaccctgt attttggtag tacatatgca tgcattgtca 240

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269

<210> 16992

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-032-Q1-K1-D6

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gatccaaaag aaatgggaca gcagggtgct gcattagtca gtaggcacac gtacatacat 180

atacagcaaa cgacgacgac agcagcgctca cccacaagtg cgcacatcag atctacaggg 240

tgaaatccag caagtaat 258

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<211> 440

<212> DNA

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<400> 16993

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ggtggatcgg agcctgtatc agaaatcgaa ataataaag actgtcttca acggatcaca 240

ctgccgctcc cccacgctaa atttgggggc tacagtgcac acgctagccg atcaacggct 300

cacgctacca ggcgctctac ggggatgtgc cccctagcca gcttctctct cccctcggtt 360

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<211> 447

<212> DNA

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<223> Clone ID: LIB3060-032-Q1-K1-F6

<400> 16994

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cagctgctgg acccgtcggc ggagcacggc gtcactaagt tctccgacct cagccggcga 360
gagttccgcc ggacctacct cggccttcgc aagtcgccgc gcgctcttct cagagaactc 420
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<210> 16995

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-G1

<400> 16995

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tgacaaggaa cttatctcac agtccgacct gcagtcattc taccagcagc agcagcagca 360
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c 421

<210> 16996

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-G5

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cgggcgcgcg tgctgttccg cgcggcgccg ggcggggcgcc ggcgggtccgt ggcggcgcgcc 180
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ttcaacgacc ccgtgggctt caacctagta gacgtcctcg cctggggctc gctcggacac 420
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<210> 16997

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-032-Q1-K1-H1

<400> 16997

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tgaggaagga cccatctgcg atgctcatct aattaagggt acctgggtcat cttgctactc 180
ggtcgcctac aggatcggat agcttactct atctataatc acaccgagca aactgtccat 240
cctagctaca atgggtagca cgcacaagga agaagtaggt gtcctggagg aaatacttga 300
cgggagaaaa gagccgagga agctatcttt atcagttcta aaacacatca caaatgactt 360
ctcgcacgag cgaataatcg gttatgggtg gtgcggagag gtttacaaga tgaacagggc 420
attctgcana acggaagcgt cgctgtgaag aaaatcttca gcaacctaaa tgt 473

<210> 16998

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B5

<400> 16998

cgttcggaat tcccgggtcg accacgcgtc cgngcagtag ccacagccag aacaccagct 60
gacagcagca tcagcagga ggaacacgat gagcggcgcc ggtccggatc tgcagctgcc 120
accgggggttc cggttccacc cgacggacga ggagctgggtg atgcactacc tctgccgccg 180
ctgcgccggc ctgcccacg ccgccccat catcgccgag atcgacctct acaagttcga 240
cccatggcag ctcccaagga tggcgctgta cggcgagaag gagtgggtact tcttctcccc 300
gcgggaccgc aagtaccga acgggtccag gcccaccgc gccgacgggg ctgggtactg 360
gaaggccacc ggcgtgaca agcccgtagg cagcccaag ccgctggcca tcaagaaagc 420
gctcgtcttc tacgccgggc agggcgccca agg 453

<210> 16999

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-B8

<400> 16999

ccggtttcgg aattaccgg gtcggaccc acgccgnntc cggagggcgc cagaaggggc 60
agtcgctgta caggtatgga agagcgaagt atatgaagtc ggcaggcgag ccggaggatn 120
gtccgtgcct ggaaccgtgn ntcgaccata tcgtgatata ctggagnngg ggtggacaaa 180
cctnncgcca nntcctcgcc gaagccttnc annagtcggt cgccaaccat tcacnnngc 240
aagcccggag cccctacgtg atggttggtt ctcaaagggt tcggggtgcc taatggcatt 300
tg 302

<210> 17000

<211> 275

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-034-Q1-K1-C2

<400> 17000

ggaattcggg tcgacnacgc gtccgcgcag ctgacggacg actgaaccac cgtcagacaa 60
catggccgcc tccgctcca cgtctccgg cctcgccggc gcctccctgg ccagccgccc 120
ggcgttctcc accagcttca cgcggggcag ccgggtgtcg gcgaggaacc cctgatgag 180
caggaacctg gagaggaatg gcaggatcac ctgcatgacg tttccccggg actggctgcn 240
gagggacctg agcgtcatcg gctttcggct catcg 275

<210> 17001
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-C6

<400> 17001

tcgtgcgctc gccagcagca gtcagggtag ccggaccggc gccctgcgcg ccggtgtcgt 60
accgtgatga ccgcgcgcct cggccccgcg cagcaacccc acggccccac gcgaccggtg 120
ccccgcgcgc tcaggccgcc ccgacggccg agccgaccaa ccagctgtgg tcgagcagcg 180
cgcgccagag ccccgccgac ctccagcgac ccgacccgac cgaccccaag tcgcgcgtcc 240
ctagccaagt cg 252

<210> 17002
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-C7

<400> 17002

ggaattccgg gtcgactcac gcgtccgagg attcttgaag agatcgagct tcttttgcac 60
cacaaggctg aggatgtctt gcagctgcgg atcaagctgc ggctgcggct caagctgcaa 120
gtgcggcaag aagtaccctg acctggagga gacgagcacc gccgcgcagg ccaccgtcgt 180
cctcggcgtg gccccggaga agaaggccgc gcccgagttc gtcgaggccg cggcggagtc 240
cggcgaggcc gaccacgcct gcggctgcgg tagcagctgc aagtgcgacc cctgcaactg 300
ctgatcacat cgatcgacga ccatggatat gattattatc tatctaactt gaggtggtgg 360
gtgaacaata ataagcgaag ccgagctggc tgacatacat aggtatcgtg tgggtgtgtga 420

gagagagaga g

431

<210> 17003
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D5

<400> 17003

ccaataattt tttttgtgat ttcgtatcaa ttctactcat gaactctttt atgggttctg 60
ctacatttac actacaatat aattcgtgaa tgctatgtgg cctagagttg ttcttactac 120
aatctattca gtatgcacct gatgggtggt tgtgtgtggt tctcctggaa tcatgtgcta 180
cagatcccca gcacgtaaac actggacgag tgttcggtgc tatgatcatt gctgctgcgc 240
ctggagctcg gcctgcgtga caaacatgcc gtggaag 277

<210> 17004
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-D6

<400> 17004

accggttcgg aattcccggg ccttcactca cctccccccg cggtccgcgc caatggccga 60
ttcgccaaac cctagctcgc gcgacctcc cgcgggcgct ggggtgctgc cggagaagcc 120
ggctcctggcg gatcgacgtg tgtctgcgct cgccggcgcc ggcgcgaggt acaaggccat 180
gtcccccgcg cggtgcgga tatecgggga gccgtgcctc accatcccca ccgggttttag 240
gcccgagct ctctcgagt ccccgctcct tcttaacaac ttcaaggttg gaccggcttc 300
cacaaccggt actctgag 318

<210> 17005
<211> 289
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-E6

<400> 17005

taccgttttcg gaattcccgg tcgactcacg cgtccgcacc agcaaagtga gtgtgatcga 60
 tcacacactg cacacactgc catggccgtc atgggcaagg aggacgagca ggagcagcag 120
 cagcacaagg aggaggaggt ggtccaagga gatgtgagag tcgtcgtcca gcaggagacg 180
 tcggcggacg aggaggccga gtcggcactg gtgcgcaaga tctccggcct ggccgncgcc 240
 atcgccaggc tgccgtcgct gagcccgtcg ccggaggtga acgcgctct 289

<210> 17006
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-E7

<400> 17006
 aagcaagctc gatctactac tactactagc tggtagacat actagccagc ctgccagcca 60
 gcttgccatg gcgcccaccg tgatgatggc ctcgtcggca accgccgtcg ccccggtcca 120
 ggggtctcaag tccgcgcgca gcctccccgt cgcccgccgc agcaccagga gcctcggcaa 180
 cgtcagcaac ggcggaagga tccggtgcat gcagggtgtg ccggcctacg gcaacaagaa 240
 gttcgagacg ctgtcgtacc tgccgncgct gtcgacggac gacctgctga aacaagtgga 300
 ctacctgctg cgcaacggct ggataccctg cctcgagttc agcaagctcg ggttcgtgta 360
 ccgcgagaa 369

<210> 17007
 <211> 138
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-E8

<400> 17007
 ccggttttcg aattcccggg ntcgaccac gcccgctcgt gcgcttcctg cctgcnntga 60
 tctcgcactc tcaaactcca ctactactag cagcatcagg aggtgtgaga atagaaatgg 120
 ccagtctnnn gtggaaga 138

<210> 17008
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F1

<400> 17008

ggaattcccg gggcgaggca aaagcgcaaa cgcgaccaca gacagagcgc gcttcaaggc 60
cttttttttt tttgagataa caaggaggag aggaggagat ggcggtcacg atcacctggg 120
tgaaggcgag gcagatcttc gacagccgcg gcaaccccac cgtcgaggtg gacgtgggcc 180
tcagcgacgg cagctacgcg agggggggccg taccagcgg cgcatccact ggaatatatg 240
aggccttgga gttgagggat ggaggatctg attatcttgg caagggtgtt cttaggctg 300
tcagcaacgt aaacaacatt attggaccag cgattgttgg aaaggacccc actgagcagg 360
ttgagattga caacttcatt gtccaacagc ttgatggaac cttcaatgag tggggctggg 420
gcaaacagaa gcttggagca aatgccatcc ttgc 454

<210> 17009
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-F6

<400> 17009

tatctggtgc acatgcatag ccgactgtag gtctttggga caaggacagg tgcattgtgg 60
cccaataact tagaggttct gccacatggc acaagaagaa taagaaatat gcatttgtac 120
caaacgaaag agacatgatc aaaggatatat aaatgagcaa tgtgtgcaat ttttcaatcg 180
aagttctgag aatctaagat gtttagctc 209

<210> 17010
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-G1

<400> 17010

ttcttctcgt gctgtcaccc ctttcttcaa tcgcctcccg attcccgcgg ggctcgcaga 60
 tcccgaagg acaccccgcc gccccgatg agccgccacc gggtcgagac ctgcgactcg 120
 tggcgcccc cgcggaagaa ccacgccgtt ggcgcgcgc tcctccgcgc ggggcctcgg 180
 ctctcgcct tcgcctcgt ctccgtccgc gacggcgggg actccgcgc gcccgctcgc 240
 aaggcggttg aggaggcgtt tgtcgtacga tccgatgagg tgaaggaggc ggtggccggn 300
 gaggagagga agaagacgaa gtcggcggag cgcaggctgc cccccgcgc gcagctggtg 360
 agccatccgc tcgcgctgct ggcgctagta cccaacagcg ccgcgatctt t 411

<210> 17011
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-G4
 <400> 17011

ggattcccgg gtcgactcac ggcgtccggg gagctcggcg cgcggtggcg ggaggtccac 60
 ggcagcaaca actgggaggg tctgctggac cccatcgacg gcgtgctcct ccaggagctc 120
 atccgctacg gcgagttcgc ccaggccacc tacgacagct tcgactacga ccgcttctcc 180
 ccctactgcg gcagctgcaa gtaccggcg aagaccttct tccacgacgt cggcctcggc 240
 ggcacggct acgaggtcac ccgtacctc tacgccacct gcaacgacct caagttcccc 300
 aacttcggca tcaagacggc cgncaacgcc aagatgtgga gcgagtccgg cacgttcac 360
 gggtacgt 368

<210> 17012
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-034-Q1-K1-H4
 <400> 17012

accggttcgg aattcccggc tcgactcacg cgtaagccgc ggttcgatgc tctgacgccg 60
 aatgagatga gcggcgggag gcccgaattc cggaaagtgc ccatgccgca gcaccggttc 120

gcgccgctca agcgatgctg gatggaaatc taaaacccg tatacgagca catgaagatc 180
gatatacgca tgaacctcaa ggtactggac tggagtctac ccatattggg ctttcttgtt 240
ttatgtgaat gagcttttcg tgctctattc cttgcaagaa ccatagattg tatacttcag 300
atcgccgtca agaagctcaa cccggagagc gtccaaggcc tgcagagtgg caggataaca 360
tggagaactt caaccctttc ggtgagaatg gagagtangg tacagggtca ccat 414

<210> 17013
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-034-Q1-K1-H7

<400> 17013

ggaccaagtt gtggggccat ataataagag acattggtag ctgacattga atgttatctt 60
gcgaataact tggatgtaga ctagctgtct tgagaatcct gtagacagtg gggctagaat 120
taaacaactt gaacatctga ttgtacaagt aacctcttgt aattttattt taacacataa 180
ggaatgatac tctagagaaa gatattgttg tccattcatg tcttgtat 228

<210> 17014
<211> 317
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-034-Q1-K1-H8

<400> 17014

cggtctgacc cagcgtacg cggngacaac tgcttcaccc ctgccgtcgc cgccgcccta 60
cgcttggtgc ctaggtgttc atcggatcgt tcaccgggca caagcatcac ccagcagggt 120
ttcttgccct atctgtttaa gactgggacg gcttctaccc cgacgaccaa gccgtgcctc 180
ccctgttgcc ggcgtcgccc cttccccacc agtgaaactc gcggtctatc tacaccgnac 240
gcacctngtg taagtgtcgg cgggtgcacc ccctgtagcc ccgacgttgg gtcctactgg 300
ttcattccgg ttggttt 317

<210> 17015
<211> 279

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A12

<400> 17015

ggaattcccg gctcgacgca cgcgtacgcc cgcgcgtgcg tgcttacaca ttctatttat 60
 ttctgtcagt agtatattga gactgagtca ggtgtgtgct agacattggg aaatgtcaaa 120
 tggagcgcag aggagccatg cgtcggatta tgctgctagg tgtacgagaa catggcggca 180
 tggctgatta ccaagaacac ccttaagatc atgcccttca agctcccgac ctttgtgatt 240
 ctattatttc ctacgtgcac atgatagcaa tggggattt 279

<210> 17016
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A3

<400> 17016

cggattcccg ggtcgactca cgcgtccgga ataatctagt gatgcctgaa gctgcaaatt 60
 ttactgggaa atcagctttc acttcggttc ggggccatgt cactgatcag tgctccacag 120
 gttggtttgg acctattgag tcaaattccc acacagacca tgcacgtca agtttgatca 180
 ggtcccagcc tttggttatt ggaaatgatg ttcagaaaac caaaggcact tcattcaaac 240
 tatttgggat tcctcttggc agtccagaaa aatctgaacc tctggtatcc ccaccaagtg 300
 tcgcatatga cgggaaactt caaacttctc caacagacaa caatgagcct tgttcagaag 360
 ctacccagaa tatccagaac aaagtgccaa gtagttcaac cagaagctgc aag 413

<210> 17017
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-A6

<400> 17017

taccggtcgg gaattcccgg gagccgcatc cataaacaag aaaaagaaaa gaaaaccccc 60
 gctgccagcg acagaagaag aaggggtccc ggctgggtgtg gttgcgttgc gcctccctcc 120

tgtctgctg cgtgcaatcg acgcacaggc gcgggcgctc gcaccaccac gaccacgacc 180
 cgatggcttt catgcgctcc cgctcaaatg catcttctgg catgggagtt gtccttaaca 240
 ttagggagac attcgctcgag cttcaaataga agaaggcatt ccgatatgtt atcttcaaaa 300
 tcgaagagaa gcaaaagcac gtgggtgctg agaagacagg ggctactact gaaagctatg 360
 atgactttat ggctctctt ccagagaatg actgccgata tgcgctgtat gatattgatt 420
 ctgctactgt ggagaatgtg ca 442

<210> 17018

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B12

<400> 17018

ggaattcccg ggctcgacgcc acgcgtccgc aaaagccggt ccaactgggg ataaaacca 60
 tgtatccaca caagtcattg gtactcagtg atatgcagct ccagagtaca ttgcaacagc 120
 ttttaaaggg agatgtcaat aatacttcct agtcttctac aaagtgtgtt ggcaaaccac 180
 caaaggagac ctcatggctg taattgaatc cttccaaaac cagcgtgca acgatctaaa 240
 cctcctaaac aaagcaaaca tagttctcat cctgaaaaaa gaaggagcaa atgcatcacg 300
 gactaccgcc ctatcagcct catccactcg gtggctaagg ttataacaaa gatcctagca 360
 ctccggctag aacctctcat ggataaacta atctcgcaat cacaaagtga gctattatca 420
 tcatgacgtg gtgcatctgg aggtgcagaa acaattggat ct 462

<210> 17019

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-B9

<400> 17019

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 ctaaggcgac ggagaccgcg agggccgcga agtatgctgg gcagcgatga tggcgacctc 120
 tgccagcggc gtctccctcc tctcctact cgcctatccg gcgcgcgcac cgcaccccg 180

caacggcgcc agcaggtaca cacacagtca gagtcaaggc ccacgcagct cgatccgcgc 240
ccaccctctg catgctctca ccgtcacgcc gcgttccggt cgcagcctgt ggcgcggcag 300
tgggcgccgc ctagctcctc atcctgctcg cttcgcggtc aataggaaga cgctccggtt 360
ggttaacgtc agcgtcagct gcagcgccga ggcgctgcgc tccgactgcg ctggcgcgga 420
gccggctgag ccgcggtctg tgc 443

<210> 17020
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D10

<400> 17020
ggaattcccg ggtcgacgcc acgcgtccgc ccacgcgtcc ggcaacatag aaagcacaat 60
agtgtaccaa caatggcagc caaaatagtt tggctcctta tgctccttgg tctttctgca 120
agtgtctgcta ccgcgaccat tttcccgcaa tgctcacaag ctcttatagc ttcccttctt 180
cccccgtagc tctcaccagc ggtgtcttcg gtatgtgaaa acccaattct tcaaccctat 240
aggatccaac aggcaatcgc agctggcatt ttacctttat cacccttggt cctccaacaa 300
tcatcagccc tattacagca gttacctttg gtgcatttat tggcacaaaa catcagggca 360
caacaactac aacaacttgt gctagcaaac cttgctgcct actctcagca acagcagttt 420
cttcatttca accaactagc tgcattgaac tctgctgctt at 462

<210> 17021
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-D12

<400> 17021
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cccacgcgtc cgcccacggg tccgattcgt tccggtcctt gagcaatttc tctcgtccc 120
agacaagcca atcgaagccg agatacgacc atggactcca ccggcaccgg agcagggggg 180
aaggggaaga agggagcggc cgggcgcaag gtcggcgggc caaggaagaa gtcgggtgctg 240

agggtccgtga agggccggtct ccagttcccc gtcggccgca tcgggcgcta cttgaagaag 300
ggccgctacg cgcagcgtgt cggcaccggc gcccccgctct acctcgccgc tgtcctcgaa 360
tacctcgccg ctgaggttct ggagctcgcc ggtaatgctg ccagggacaa caagaagact 420
cgcattat 428

<210> 17022
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-E10

<400> 17022

ggaattcccc ggtcgacgcc acgcgtccgc ggacgcgtgg gtgctgatcg tgcagtcaag 60
gctatagaat ctctacctga tagcgacgac gaggatgttc tgacttcaag gcgtgctctt 120
attgatatca cagaaagagt catcacacgg acaaaatagg aaggtgttcg gcgtccataa 180
ggtgaatgga gagctgaacc tcgcctttgg cctagtgttt cacttggatt ttcttttttg 240
tatacttcgg ttcattgcat tcttttcgca gccaaaaccc caagttttgt gtatcattgc 300
tgaaatttag gattaagaaa tggccctgca tttctgggaa gcttctagag gttttggctg 360
catgtggcaa caaatatat gtcaccgatt gcaatggcac cagatatcgt gtagccatat 420
aagtgtggga gcattgtacc caatatacac ttccgtaaag a 461

<210> 17023
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-035-Q1-K1-E3

<400> 17023

ggaattcccc ggtgcgactc cactgccgtc tcgcaaaggg aattcccttc cccttttagct 60
cgccgctctg ccgctcgctt cnngtctccc ttgtagaggg tgctcgggga ccngnatgga 120
acttggcctg agtacttttag gttnagagaa tcngnngttt ttctttgtct ttctagcctc 180
ggggtctgct ttgcgtnnct ggtggtgnnn gtgaaggggg nnagaaatnn tcgtgagaat 240

nnectgttctn cggatctagg tncgtgcntg agcctcgnnn ggaatnncag ggngnntttc 300
 actacctata gcnnnttcgtc ngnnatttga naatttnnga tgtacctaan nntggagtct 360
 taaggggggt ggcaannaaa gtcttagnnc agtagnntcg ttcttatttg atgtnnatga 420
 agcttccnnn ccttgg 436

<210> 17024
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-035-Q1-K1-F1
 <400> 17024

cgggccggaa ttcccgggca gcaatccaca caagcacttc gacgtcacac gggcgctgca 60
 cacagacaca ccaagcgctc gcaccaatgg ctggactacc aggaggtgga ctactgctcg 120
 gaggaggtga ggtcgggtggc cccggccggc ttcggccggc acggcggcgg cgtccagcag 180
 cacgtcgtca aggagaagtt cgaggaggtc gacacggctc cacgcgccgg cgccaaccac 240
 caccaccacc atggtcacca cggcggccac ggcttcgtgg tgcgcgagac cagggtcgag 300
 gaggacatca acacctgcac cggcgaggtc cacgagcgca gggagagctt cctcgccagg 360
 gctaactgag cagcccgggc ggccggcatc cacgcccgtt cgtgcctgcc tgcgtgcctt 420
 atgtatgtct 430

<210> 17025
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-F12
 <400> 17025

acgcgtgcgc tccccgacct ccagctcta gagtctagac agccacaggc aggagctcca 60
 cggagtggac gtgacctcag acctgacaca ttcacagtgt cacgtgcct caacgtcatg 120
 tctctcctcg cctccccac gccgttcggc gtgaccgcca tccgccgccg cgtcgccccg 180
 ctctctctcc tccctgctgg cggtcgcgcc gccctgcacg tggccctcgc gcgccgcggc 240
 ggggtctcgt cccggacgca gcggcgctc gaggaacgag gaggcaagaa gcgccgcggc 300

ggggtcgtgg cccccgacgt ggacgaggac gcggcggagg cggnggtggc tgagtgggaa 360
 agggagccgc tggggttcga ggtgtcgacg gagcccatgc cgcg 404

<210> 17026
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-G3

<400> 17026

ttggtttttt attcaatcac gagtatagaa tattgggttt gcatgcacaa aaccagtgga 60
 aagaacttat ctaatagctc aaactgtctc aaaatctcta tgctacaact gagctaactcg 120
 ttctccgcag gatgggatag gataatctgt caaaatgggtt gttatagacg tcggttaacg 180
 gtaatggtgt acacgatgtg gaaagaattc cctatatcta tgttcactgc acgaggggcg 240
 cgaactatga acacaacggt gagcgacatt ttaggcgttg aagagcttgc ggaacggccc 300
 atccttgcca tctttggcgg cctctgtcaa tgcaaggaac ctcttgaagc ccgtggtggc 360
 tgctccgcgc cc 372

<210> 17027
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-035-Q1-K1-H10

<400> 17027

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 tgctgcttcc ggtggtaacg gttgtggccg gggagaccgc cgcgcacccg ggctacgcgc 120
 acgctgagga ggcattgcgc ggtatgctag aggcagaggc ggagaaagca acggtgctgg 180
 tgctgcgcc ggagcggcgc gaagagtctg acggcgggcg gatcgtggac atcagccact 240
 actaccgcga ggacatgccg gagtgggagt catcagaggc ctccggcgag ttctgcagc 300
 tggcgcggtc catgcgcaac ggctccgaca tcgctaactt ctccggagctc cggctcactg 360
 cgcactccgg caccacgctc gacgcgccgg gacacgtctt cgagcactac tacgacaccg 420
 gcttcgacgt cgacaccctc gacctcgtg tctcaacgg accagcgtg ttg 473

<210> 17028
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-H12

 <400> 17028

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ccggggcttc atctctctcc tgctcgccat ggctggtcga gctttttttc cagccacgaa  180
gtcccatggt ccgcgcagct cagcctttgc tcctccctgc gtcgcgcgcc tggcttgctc  240
tccagctccc gtgcacgccc ggatcctctt cctcccaggg gtcgggcgc atctccatct  300
cccagcaagc gccctaccga agccctccca tggcggttgt cctccctggg gccgagtctc  360
tctctgcaa tcgcccattg cgcacagcgc cttggccttc ctggtactcg ctctccctca  420
gtgccctgtc cctt
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<210> 17029
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-H5

 <400> 17029

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gctttgacgg cggcaccaac gttcttcct cgcgcctcg ttgcgtccgc ccgccagcg  180
ccaactctc gtactcgtac ataaccacgc accccaccgc gtacagcgtt cctctcgcg  240
ccccgcggtg agtaccccc gtcgcctta gctagctacc caccatggcc ctaccgcgt  300
cctcctcgc gtcgtcgtc ttcgacgcgt cagcgcagtc cagccccctg cactgcacc  360
ttccgaccaa ggcgcccggc cgctcccg cgtccctt ctgcgcgcgc gaccatecgt  420
cgtcgc
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<210> 17030
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-035-Q1-K1-H6

 <400> 17030

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 tgctggccgc cgcttggggc cgggcggcga agccgcggca gctgagctcg cagctcgcgc 180
 tgccgtcgtc gtcctcccgc gggccggccc cgctccgcgc gtccaccgag gaggcggtgg 240
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 gcggcagcac gggcgggctg ctccgcaagg cgcaggtgga ggagttctac gtcatcacgt 360
 ggacgtcccc caaggagcag gtgttcgaga tgcccaccgg cggcgccgnc atcatgcggg 420
 agggccccaa cctcttgaag ct 442

<210> 17031
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-035-Q1-K1-H7

 <400> 17031

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 gaaaataaca aaaaaagggg caaccaatct ataactatcc aaacttacta acgcgtgcat 120
 gcactatttt atctattcta tcttctccct taattccatt tcattgccct tcaatttcca 180
 accttaactc cagtt 195

<210> 17032
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-036-Q1-K1-A10

 <400> 17032

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cgatggctgc gctgcgcctc gcatgcttca ccctacgtcg cgcggtgcc gagtcctccg 120
cctcctccgg cgcgacccca gccgcgtccg gctccgtctc cttcgcccg cgggcgcggg 180
ggctgccctc cctccgcctg gccccgccc gccgcgcggg tgacctcgcc agggcccgcg 240
ccgcggccga tgccgcggcg gagagctacg cgtccgcgct gtcggacgtg gccgtcgaga 300
acggcaccct cgaacagacg gtctccgacc tggagaagct ggaaaaggct ttcgcggacg 360
aagccgtcgc cgagttcttc gacaacccca ccgtc 395

<210> 17033

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A12

<400> 17033

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gtccatgcca gccactgccg ctgcaccgct tcttctatc ctccggctcc accccgtcct 120
cgcaatcgca acatcacaag gctaacctgc atcgccgcgg tgcgcgccag cgctgccag 180
tccgcgcaga tggaacgcag gcaggaggcg aagggtgtga agctgcgggc ggtggaggcc 240
acgcccagat ccttcgcttc gtccgggcag gtcacggcg cctccccga cggcgacgag 300
ttcgcccccc acgacgccc gtcgatctc agccgcggca tccaagggt ctacatcatg 360
cggttgcala accggccgct gaaattctct accatcacc accacgccag c 411

<210> 17034

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-A2

<400> 17034

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tataacaacat gctaaccgtc cattccaatt caatccaagg attacgtaca agaaaacaag 120
agcatcgcaa aacgatcctc actcgctact ggagctacat aacgtacgta cattcaccct 180

atctagaccc tattcgacac catctacgca ccgctataca aagcagatca tgctgatata 240
cactctcaaa catctgaaca 260

<210> 17035
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-B1

<400> 17035

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gccgatccta gtcaaagggg tctgtactgc agaagacact aggcttgcca tcgaatatgg 180
cgctgctggg atcatcgtgt ccaaccacgg cgcgcgccag ctagattatg ttctgctgac 240
tatcagctgc ctggaagagg tctgcagga agcgaaaggc cggctaccgg tgttctcga 300
cggcggcgtc cgcctggga cggacgtctt caaggccctg gcgttgggag cttcaggagt 360
gttcatcggc cggcccggtc tgttctcgc 389

<210> 17036
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C4

<400> 17036

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ggtccctatc tatctatcta tctatctatc tatctatcta tctatctatc tatctatcta 180
tctatctatc tatctatcta tctatctatc tatctatcta tcttgtgttt ctcttcatgc 240
tattgtatcg aataaaagaa ttgacctgta attttaaccg gctagccgcc ggtgtcttcc 300
ttgatctatg tgcagttagg cagacgttac ccagcagtta atatagttat attaaactaat 360
gcctccttca actatgcgtt gggcatggga gcattagccg aaccacctca ggacagctct 420
gccgacggtg tgatcttgat caaggatatg gccgaatggc aa 462

<210> 17037
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C5

<400> 17037

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 taacgatgga aaggataaca tataataact ctccatagata ctgagttcca ctacaaaaaa 180
 aagacacata agcactctca gactctcatt cttcacagca tcgacccatg accgtacagt 240
 ctcattctca tctgattgaa gaggatacc tttctaatagc catttattta cacctctata 300
 tcgatcaacc atactccgtc ggacagttac tacgcctgaa acccaacatt tcaaccccaa 360
 agttcgaa 368

<210> 17038
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-C8

<400> 17038

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 ccttgctcac caatactcat tcaccatccg aagattttctt cacaggctcat gaactatcca 120
 ccttcctact ccttcactct cttccctttc atttagcctc ccgctcttct ctatccctc 180
 tccattccca accatctttt cagttttttc cgctattgcc cgatacccat ccacatccag 240
 ctcacgacta acctcatccc cctcccttc tcttctcctt cctcctcctc ctcctctcgg 300
 tcttctactt cgttctcggc cattgtca 328

<210> 17039
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D11

<400> 17039

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taagaatccg cttaaattggg gggatcttat caatttggaa ccggagattg aaccttggcc 120
tgaaccaagg cccagaagg attcaagtca ctttctgaaa gacctgggaa acttttttca 180
agagaatgct gatcagtctg atgagataca gaatttcaga aacatatctg acaaggctga 240
aaaaatcatg gaggaatatg accggctgca aaagaaactg aaacagctgc aaggagagga 300
gcgtaatcac gacgagagga gcttgtcacc tagacaaatg gctgcgtcac tgaagcgaaa 360
gagtctatca gagcctagat atccagagct gcagattcca gagaacattg aacaattctc 420
gatgtcgcaa atcga 435

<210> 17040

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-D7

<400> 17040

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tgaggggaatg cggctcatat ttteggcagt tgtaggtgtc atgctggggtt acctgttttg 120
gatctccttc cctacagtca acataaccaa gcttcacttc ccttcgagta tcattcttta 180
tatcgaagat aggaactctg gcatcacaac ccagacattg ttgaaccatg cttgggcac 240
tgcaaacaat cataaaaaga atagttctga atctaact gatgaaattc ccgagattta 300
tgttcctaca aaccctaaag gtgctgagag acttccacca ggcattgtag tgtctgaaac 360
agatctttat cccgaagac tattgggtgg atctagtg 398

<210> 17041

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-E10

<400> 17041

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 cgccctgtcg ctgacgctaa cgcttgccctc ggcatcacca gctgacgggc aagggggcgg 180
 aggagcacac tgcccgcgccg tgctatgcgg cggcgtggag atcgccctcc cgttcgggat 240
 cgtccaggag caggcgacgg ccaccaactg cggcgggata gggttccagg tccgctgcgt 300
 caacggcacg ccgtacctcg gatacagccg gtacgaccac tggctccaga tcctcagcgt 360
 ctctacacc aacgcctcct tgctcgtcgc cgacaccac aagctcgaga agctgggagc 420
 ctc 423

<210> 17042
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-G11
 <400> 17042

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 ctgctccctt ttacacactg cagttcgcca aagaaaatgc tcttgagctt gaccttcag 120
 cgatcaagct cggtgagcac gaagacgtaa ccgaggaagc cgtgtctact actttgagaa 180
 gggcaatcag ccgtctttct actctccagg cacatgatgg aactggcct ggggattatg 240
 gtggccctat gttccttatg ccaggcttga tcataacatt gtatgtgact ggagcactaa 300
 aactgtctt gtcacagaa caccagaagg agatccgctg gtatctttat aatcatcaga 360
 atgaagatgg tggctggggc ttgcacattg agggccaag caccatgttt ggctcagcac 420
 tgacctacgt tactt 435

<210> 17043
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-036-Q1-K1-G4
 <400> 17043

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ccggcggggcc catgggggga cgcctggtgt ccatgctccg gtggccgccc gacctggggc 180
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 agtgggtggca gtggcagtgg cagcggtcgc ggcccagca gctggggcgc ggggcgcggc 300
 ggtggccccga gctcgtgcgg gacgtcccgg tcttgggtga cgccgcgctg tggggcgctc 360
 tcacgggctg cgagtcctgc gcgctcgtct ccatgatgtg ctgcttct 408

<210> 17044

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-G9

<400> 17044

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 gccgcaatgg cgagcagcac catggcccgc tgctccacgg ctttcgccgg caaggccgtg 120
 aacgtgccgt cgtcgtccgc cttcggcgag gcccgcgtga cgatgcgcaa gacggcggcg 180
 aaggccaagc cagcggcggc gtccgggagc ccgtggtagc gccccgaccg cgtgctgtac 240
 ctggggccac tgtccggcga gccaccgagc tacctgacgg gcgagttccc gggcgactac 300
 ggctgggaca ccgcggggct gtcggcgga cccgagacgt tcgccaagaa ccgggagctg 360
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<210> 17045

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-036-Q1-K1-H1

<400> 17045

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 cggcagcctc acctgagcca cggacgacca ctccctgcac aacgccttca gcacctacgg 180
 cgaggctctc gagtccaaga tcctcctcga tcggtagacg cagaggtccc gcgtgcttct 240
 gcttcatcac cttctccacg gaggacgcga tactgaacgc catcgacggc atgaaccgca 300

aggaactgta cctacgcaac atcaccgtta acg

333

<210> 17046

<211> 456

<212> DNA

<213> Zea mays

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<400> 17046

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aagggttatg aatatgatga agaacaatca attgggtgaa cggctaggcc ttggacaatt 120

gaaatcactg gtgactgcta cagctgcaaa caacaaagaa gactgtcctc agcaatcaga 180

gagtttatat gatggtgaaa aactgacaa ttctaatagaa gaggaatccc aatgtactaa 240

cggtggttgt gccaacatct ccaatgatgg tgatcagatc tcaacaaaag taacaagagg 300

aaataaaaata attgtggcac ctacggagga gcgaacaatt agagtcacta ggcaaagaat 360

tgctaaagta aaccaagaaa atagccacaa cctgtctatt cataaacaac tcagttcatg 420

tcctgctaca aaccatgatt cgatagaaac tcttgt 456

<210> 17047

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-036-Q1-K1-H6

<400> 17047

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ccgaggctag gcagtcctc tggtggggtg gccagtgggg atctcgccgg ccgggaggtc 120

tggggggcgg gggctgcaa acttcgcat attggtgaat cactgaatcc gccctgcca 180

gcaaccgttc tgacgtggcg gggtggggca ggatccaaat ggcgggcgca atagaggaac 240

tgcggtcct gggatccatc cctgtactgg aaggctcggg agaggtegcac ggcgtggtgg 300

gtgaggaagg gcgaccgca ggcggcggcg acgacgagga gatcctgcga ttcattggact 360

cgggtggacag ctacctgctc ctcatggact ccctatcctn cgctcttcgt caggtatgcg 420

atcctgcag 429

<210> 17048
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-A3

 <400> 17048

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 acttcgcggg ctctctccgc tactccaccg cagcgccac cgcgggggct cagaagattg 180
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 cggatgggct gttggaccgg tcggagggtc cggagtacct caccggagag gtccctggag 360
 actatggcta cgaccctttt ggctgggca agaagccaga ggacttcgcc aagtaccagg 420
 cctacgagct gatccatgcc agat 444

<210> 17049
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-A8

 <400> 17049

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 tgctccctcc tctctctacc tatctggagg tacccttctt gtggcgcggc agagatggct 120
 gcccttgct ccaccacggc tgctgctgct gcagcgctgc tgctgctgct cctactgtcg 180
 ctgcgcggcg ctgcggacat gtcgatcgtg tc 212

<210> 17050
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-B12

 <400> 17050

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ccaccgtcac gctcacgcct atacgacgaa cttctcaagt tctgcggggg agactagaaa 120
cgaacctagg atctcaatcc ttttgcgcac ctctcatcat actcctatcc tatctagtat 180
cccgctccgac cctagtctac actgatccac tatccactgc tatttctact acatcaccta 240
cattctactt cgatgccaat atattcacct tatcttaact ctacactata tatccattcg 300
aacccttcga gtcagtactc ttcaaccacc tttacttcat ct 342

<210> 17051
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-B3

<400> 17051

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gtccgcagaa gtccgcgtcg acctgatcgt ctcgggggta cgaggacgag gggaagtcgc 180
ggcgtccgcg gttgtctctg cactcgtact cgtcgcaagg agaacggaag aggaagcccc 240
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ggatggacga gctggagatg gacgaggagg tcaggcccga gttcccctgc ccctactgct 420
acgagggacc agacgtcgga tccctctgcg cgcacctgga agaggagcac cccttcg 477

<210> 17052
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-B6

<400> 17052

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agctccgcgt cgctgcccac gctccggaat gccacctccg acgacttcat gtccgccgctc 180

tccttcagga cccacgcggt cggcacgagc ggcgggtcgc ggcggggcgcc gactgaggct 240
aagctgaagg tggccatcaa cgggttcggc cgcacgggc gcaacttcct gcggtgctgg 300
cacgggctcg gcgacgcctc gcccctcgac gtcacgcca tcaacgacac cggcggtgctc 360
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<210> 17053
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-037-Q1-K1-C2

<400> 17053

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tctttacatt ctacgacaag ggtcaaacgg agtttcgtta atgagtcttc ttgcaatctt 180
ctgatgtaac acatgangaa tcttgtcaaa tctctatggg ctgctgtgct agaaggaaac 240
cacaggtatc cttgtctaca attatctgtg aaaataatag tcttgacat acccttctag 300
attcgcgaca cagcaacatc cagttcaact ggagaactcg ggtaaataac tgcacggtg 360
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tcaaggcgag caatatactt cttgataagg aca 453

<210> 17054
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-C4

<400> 17054

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cggcgaggat ggggaacatc ttcgtgagag aagcccaaga tcaccgaagt ggacagggcc 120
atcctcacc tcaagactca tcgctcaag ctgcgccagt tccagcagca gcttgagaag 180
gtaattgaag cagaaaagga agctgcacgg cagttggttc aacagaagaa gagagacaga 240

gctttgattg cactgaagaa gaagaaagct caggaagagc tgttgaaaca agttgacaca 300
 tggcaaatga atgttgaaca acagctctca gatattgaac tagcatgtaa acaaaaggct 360
 gtatttgaaa gcctgaaggc tggaaactct gtccttaagt ctattcataa tgagatatac 420
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<210> 17055

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-C9

<400> 17055

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cacactcatg aag 73

<210> 17056

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-D12

<400> 17056

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atctcactct cactatatgc tgcaactagc atcatgctgc tcactctgct tgcgcttctt 120

tcctgtcatg 130

<210> 17057

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-D2

<400> 17057

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gtcgtcggct gcccttacta gaggaggatc acctctttct cgacgggccc tatcgtgcct 120

gtgttccgat ccttgctgtc tcggctctct ctgctcctag tcctcatacc tctgtactct 180

ctcttgcttt gtcttctgct actatcacgt ctctctttca cactccggtc aatcttataa 240
tctctctcaa actgtccaaa aagaaagcga ccatatcccg catctcgatg atgcctattg 300
gtactccacg tgttccttac cgaacacctg ttgaaagaac ctgtcaatgg cttgacatat 360
ggaacgctct gtaccgtgag cggattatct tcattgggga caatatagat gaagaattca 420
gcaaccaaatt gttggcaagc attct 445

<210> 17058
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-E6

<400> 17058

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gcgagttgga tggccttctt cttggcggtc ttgttcatcc tcatcttgct agccatcgcc 120
tcctacgtcc agtacactcg ctggcaaaaag gggaaaggcc gcttcggcag ccatgggagg 180
tctgtccctt tgaatctgcc tcctggctcc atgggtctggc cttaccttgg ctagaccctc 240
cagctttact ccaggaccc cagcttcttc ttcgcttcca aacagaagag gtactgcgag 300
atcttcaaga ctcaccttct gggttgcccg ttcgtgatgc tggctagccc ggaagctgct 360
cggttcgtgc tggtgactca agcgcacctg tt 392

<210> 17059
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-F10

<400> 17059

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cctctcgtgt ctggccgaac aggcagagcg accggtctcc agagcgctcc ggatggcgctc 120
aggagctgcy gcgccctctg tcgttcagac tgtggtgctg aaggttgcca tccactgcca 180
tggctgcaag aagaaggtcc ggaaggtgct caggggcata gaaggcgtgc aggacgtgac 240
ggtggacgcc tcgcagcaca aggtgactgt gacgggcacc gtggactccg acacgctcat 300

caagaggctg tacaagtccg gcaagaaggg agtgccctgg cagtgtcacc cgccccccaa 360
gaacagcgag cccgcgccgg aggccccgcc ggctccgcag cctgccggcg actgctgcaa 420
ggatgctgct gctgctgctg c 441

<210> 17060

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-F12

<400> 17060

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agctggtgga gacgtacgcg tgctcgccgg ccacggaacg cggccgtgga atcctcctgg 180
ccggggaccc caagacagac acgatcgctt actgcaccgg ccgcagcggtt atcatccgcc 240
gcctcgatgc gcctctcgac gcttgggcct accccgacca cgcctacccc acgaccgtcg 300
cccgtttctc cccaacggc gagtgggtcg cctccgccga cgcctcctgc tgcgtccgcg 360
tctggggccg ctacgggtgac cgcgctctca aggccgagtt tcggccccctc tcgggacgcg 420

<210> 17061

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-F5

<400> 17061

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tgtatgcacg gatccagcgt tccagctagc acgcgcgcac ccagcaccca gcaccagca 120
gtagaatcta tatatcgtag gcaagtagtg gatcgaggca tctatctgca gtccctttct 180
tcttcttctt cttgattgat aggtgcgccg aagcttggtt tggtgggtgg cttttgtctc 240
tgtcgtctcg tctcgtctcg tcttccgccc ggccgtcacc acctgcaggc tatactagct 300
agctattaag tccggccaac caagcagctc gatcaggctg gtcgacggcg gggacagttc 360
ggagggagga ggctgccgga gaccgaatga cgcctaccat caactcgcgg tcc 413

<210> 17062
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-F6

 <400> 17062

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 cacccttggt gtttatattc cgctcgacaa ctagtatgga gttaagcacg taatatcagt 120
 ggataaaaaca tatgctaaat tttaatcatc ttctatcgcg attttaatat cgcatctggt 180
 tctgtctatt tagactccta aaattttcgc gaatttcgga acgcaattgt tctgaaagct 240
 tgcgagcctg tgcccaatt 259

<210> 17063
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-F7

 <400> 17063

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 ggataaggtg cctcgccgt aaacagagt gttgttcgc ttcgtccag cctctagttc 120
 ttcctttcct ccagagtgat ggccaaatgc tactcagatt ggccccgat tccgcctttc 180
 catccatcgc gaagaacgcc gccgcaatcc cagcctccc cgatcacgat caggcggcag 240
 ctgcgtcct tcgtgtcca ctgctccaga tctgcgtc cctcctcga gcccaagaac 300
 ctgcccgatg agttcgaggc cgtaccggcg actacgactc cgtcgctgcc ggacgccgcc 360
 ccgaagctgg ggatttctaa caagtt 386

<210> 17064
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-037-Q1-K1-G2

 <400> 17064

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 tctacttttc tctcgcgctt tccactgatg ctttcccctg cctgccgtcg tgcattcatca 120
 tctccggcca gggccagggc atcccgggtc ggcctcctcc actctgcgcc cccagactc 180
 gtcgtcgcgt atctgctggc cgccatggcc accgtcatgg ccgcggccgt ctgcctcttc 240
 ccgtcctcct cggcgcgtcg cgccaaggcg tcgccggcgt cccctgtgc cgcgccgcac 300
 ttccgcccga gggccctacg gtccgctatc 330

<210> 17065

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-G5

<400> 17065

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 cgaccaagtt cgcagctctt ccatgggggt tcggtcgtgg gagcgtcatc tgcgcgctca 120
 aggctcgcgt ggatcgcttc ggtgtctcgt cggttgagct ctaccaactc cattggccag 180
 ggatatgggg caactaatac tacctggacg gccttggaga ctctgtggag caagggcttg 240
 tgaaggccgt cggggtctca aactacagcg agaaacgtct tcgagactcg tacgagcgcc 300
 tcatgaagag gggggtcccg ctgccttca accaggtgaa ctacagcctg at 352

<210> 17066

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H11

<400> 17066

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 agagactcag agcagggcgc tcgtgagtcg gaggagaagc gcgaccacta ccatgggctt 120
 tatctcgttc gtcggccggg ttctcttcgc ctccctcttc ctctctcgg cctaccaaga 180
 gttcattgaa tttggaaatg actgtggacc tgcagcgaag accttgaagc caaagttcaa 240
 tttgttcgtc aagctagtgt ccaagaatac tggactgggg ctgccgcata tggatataaa 300

aactgtcatt gcagctacca tgtttcttaa aggttttggg ggtcttctgt tcatagtcag 360
cagctcattt ggagcattcc tctgtctcat ttacttggcg tttataaccc ctattgtgta 420
tgactttctac taccat 436

<210> 17067
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-037-Q1-K1-H5

<400> 17067

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ctcagtgtta aaactgtgag catatcaatg cccgtccttt aagcaatatg ggagctaatt 120
gctgcattgc tgcaaaggag aggacacaac catgcattac tccattagaa gtatcagcgt 180
acaggaatgt gagacattca ccatcatgga gctttcgggtg ggacaatcgc acacatatag 240
aagacataat ggaaatccct actctgttct ccaaccatag tagtggaagc attcggcctg 300
atacaaagag tggttccatt gcccgaactg aagggttttc taatggaaat agccttgga 360
ctagcccttc caatgtgtct cacggaacaa agtggcacia atctgacaaa aaaatggaag 420
catctaaggt taaaaagg 438

<210> 17068
<211> 145
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-038-Q1-K1-A10

<400> 17068

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atgtttgact aataaaaaaa tttcataaat aaaaaaaaaa aaaaaaaatt taaaattcaa 120
tttataaaaa taaaatatta taata 145

<210> 17069
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-A2

<400> 17069

ggaattcccg ggctcgagcca cgcgtccgct gttttttttt ttttgcataa tttgcatcca 60
gtgctaaatg tgaattcaat catacagttg ttttgtcaat taatcgttgt ggtaaaagtt 120
cggagccgta aatttatata ctgatgatct gcgtgtaata tggaatgaat gtggtaacat 180
cacctttcgt caaaatattt gtgcagaaca tagttaagca ctcgagattt tcaaattggcg 240
tcctcaacga gcatctcatc tacttggcga tgacaccaga ccagattctt ctatacatc 300
cttactatct gggtgaccac tt 322

<210> 17070

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-B9

<400> 17070

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caatccatgt gacgcccag actgttgatc tattccagtt atgaggttat gggcttgat 120
gccactgctc tgtcttatgg tgacctgtc aagagggtcc ttcggtgctt tggcccctcg 180
gagttttccg ttgccgtgac catcttcggc gggcgtggcc atgccgggac atggggaaag 240
gcacttggtg cagagggtcta tgactgcac aacatggtgg agcaggagct gcctggaggc 300
gggctcctcg tgtaccagat cttctgtgct gctgaagact ctgttgctac ctgccecaaa 360
tctgtttgcc actgctttg 379

<210> 17071

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-C10

<400> 17071

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gtgtcacaca aaggccggtg tcagtgaccg cttcgttgga tcacaaaacc agcgatgcca 120

gaaggaagtt cctaaaactt gcacttggga accttggagt tggactgccc accttgttgg 180
gcgctaagaa agctctcgct gatgagcaag gcgtctcgtc ctcgaggatg tcttattcga 240
ggttccttga gtatcttgac aaggatagag tgaagaaggt tgatttgttt gagaatggga 300
caattgctat tgtggaggcc atttctcctg agcttggtaa ccgcgtgcaa agagtccgtg 360
tgcagcttcc tgggtctaagc caggagcttc ttcagaagtt gagggagaag aacatcgatt 420
ttgctgctca cagcaaccag gaagact 447

<210> 17072

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-C6

<400> 17072

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actactcatc ttccattaag ccggataact ttaaatttac gacgtcctcc accgccccgc 120
ccgccccttc ttcttccacc tccccttaca acgaataatt cctcctccgc caccttaaca 180
acccctttca actctccgct atccttaact taccactacc acccacacca catacccccg 240
gttacctaaa gatcacataa aaagcaccat 270

<210> 17073

<211> 312

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-038-Q1-K1-C7

<400> 17073

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tgaaaactga actgtaagat ggcatgaggg tagctttccc gtgaggaaaa tgtgtacatg 120
gcgaagctcg ccgagcaggc agagaggtac gaggaaatgg ttgagttcat ggagaaggta 180
gcgaaaactg ttgactcgga ggagctcact gtggaggagc gcaacctcct gtctgttgca 240
tacaagaacg tcattggagc ccgccgtgcc tcatggcgca tcctctcctc catcgagcag 300

aangaggagg gt

312

<210> 17074

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D2

<400> 17074

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atgtcgccat agtaaagaac ccgacgcagc tcatccctgc caggtttatg atcaatgatc 120

ttgggttcctg cttagagtgg aataaagcta tgcagaagat taccgggtata aagagggaag 180

atgcgataaa caaattgtta attggggagg tcttcacgct tcatgattat ggctgtaggg 240

tgaagatca tgcaactcta acgaaactta gcatactgat gaatgcagtg atttctggtc 300

aggatcctga gaagctcttt tt 322

<210> 17075

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D4

<400> 17075

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ctttcgtggc cttccttttc cggcggccac aagtgggcga gcggcggcgc ccttcaccag 120

gtcttcgtcg ggcccttcac cggcgacgag catccaccag aaacgtggag ctgagagcat 180

tgggtgcctct ttctcttttc accaaggatt ccggtgcctt gtttcacaag acaaaaaaag 240

tctcaagggc cttgattctt gtatgaactc aagatttatg gtggatcttg gagctgtggg 300

atgctaagcc tggcttagct acc 323

<210> 17076

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D5

<400> 17076

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gcaacttaca acgcaacagc ggcgcggttca tcgagtcgac gtcgaccagc cactatatac 120
gcaagaaagc caagaaaaac acttctatcc ctcttctctcc atatccaata accaaaggta 180
gctggctagc cgcgactcat tggctagacg attcaagcag cagctcatga tgggtggctcc 240
gatgatgatt gcgtcggccg ggctgtgcat gctggccggc gtggcgatgg ccaaccggtc 300
cctcgggaaa 310

<210> 17077

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D6

<400> 17077

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cgttcacccc agcggcgcca ggcgccacg ggatggtggt tcttgtggct actgccgctc 120
gggtggcccg gggaagcacg gccgcccggg cgcgcccgcc ggctgcgagg ggcagggccc 180
ccatccgctt cgccgcccag ccctagcaca aggcggccac ggtcagggtt gaaaaatata 240
gattgttatc atggatgaaa ccaataaggc atgacgtcag ggcccaaagt tcc 293

<210> 17078

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D7

<400> 17078

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tctttcttgg tggtcatccc tgcggcagcc accacttggg cgctcctctc cctgcccctc 120
ccatggcggc tccccctgga tccctccctg cgcggaccct ctcccgtgga tgggtgccgc 180
ccttctctga gcacgtcgtg ctccctcccc tggcgccctc gtccccaacg ccggaaatgc 240
cgctgctgct ccaccagccg ctactgtctc tgaacgccag tgccgaccac catctcccat 300

ggcgcaggag ctcc

314

<210> 17079
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-D8

<400> 17079

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cccggccggc ttccggccgcc acggaggcgg cgtccagcag cacgtcgtca aggagaagtt 180
cgaggaggtc gacacggtct cacgcgccgg cgccaaccac caccaccacc accatggtca 240
ccacggcggc cacggcttcg tgggtgcgca gaccagggtc gaggaggaca tcaacacctg 300
caccggcgag gtccacgagc gcagggaga 329

<210> 17080
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E1

<400> 17080

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atctctttcc atagccggct tcgagctcgg gctagtcgtt catggcgtgg acaccagacg 120
agctccctgg tgctcgcccc tctccagccg agctcctcct atctctcct cgcgctttcc 180
tctccctgcc atggacgccg gagttccgct gctcggccat ggccgctgtc gagcttctctg 240
ctcgtgccta tctccctcca tggctgcgct tcatcaagct ctctgcgcgc cgtgaagccc 300
ctgcgcgtcg cggtctccca 320

<210> 17081
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E10

<400> 17081

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agagtcgggg tctccgagca cacaatagct attctcggtg aaaacagggtg ggaagaccca 120

accagactga cgcataacaa aaagacagcc atcaccggca cagttgcatc tactaagact 180

tgcattcttct gtcgaggcga acgccgcctc atgtgcttag aatgtgatgg aacagggtgag 240

ccgaacattg aaccgcagtt cttggagtgg gtcggtgaaa atactaagtg cccatactgt 300

gaaggaattg gttccatttt gtgtgatgtt tgtgatggaa agaaagtaat ggcaagttaa 360

gtaaggctta tagcaagaat tccctgcctt gtctgtgttc ggt 403

<210> 17082

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E11

<400> 17082

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cacgtccatc tccacataca cgactttata ctaccacata ggccctccta cccagttcta 120

ctgctgctac ttccaaccac ctccaccca cccgtacttc ctctctccct tcgacccta 180

tcct 184

<210> 17083

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E12

<400> 17083

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tggtcttaat gacaaatttt gacttttcat cactaaagtc aatcatcccc tacgaaacgt 120

cataagtagg agaggcttat gacattttga tctattgtca caaggatttc gtcatagaag 180

gctatatgtg ttgtagtgag agtttataca catgggttagg gtactcacta ttttcaaagc 240

cgggaggttg ctcaacatag acctcttctt tgattgggtcc attgaggaag gcacttttca 300

cgtccatttg ataaagctta aagccatggg aagtagcata ggccaataat atgcgaattg 360
 actcaagcct agctacgggt gcataggttt caccgaaatc caaacctttg acttgggagt 420
 atcctttggc caca 434

<210> 17084
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-038-Q1-K1-E2
 <400> 17084

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 ccggacatcc gcgcggcgag cgccacggcc actgttcgcc gtgcgcgcct cggtgctga 180
 cgccgccaac agggatgccg tgctcaaggc cttccgcgag aacagggctc tcaagataat 240
 tcccggctct cagaactttg acaggatcag tgttgcattt gttgccacag ctgcagataa 300
 gggaggtgca acacatgtag ac 322

<210> 17085
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-038-Q1-K1-E4
 <400> 17085

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 gcaggaaggc ggtgatcgtg cgcttgttct aggagggcac ccgcgaccgc ccctacggcc 120
 actgcctcgt cgccggcctc gccaaagtacc ccaagaaggc ggtccgcagg gactcggcca 180
 agaagacggc gaagaagtcg cgcgtcaagt gcttcatcaa gctcgtcaac ttcaccacc 240
 tcatgcccac ccgctacacc ctgcacgtcg acttcaagga cgtggccacc ggccggggccg 300
 acgcgctctc caccgcgcac aagaa 325

<210> 17086
 <211> 298
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-038-Q1-K1-E5

<400> 17086

tcccgggtgc gacgcacgcc gtccgggtgt tctgctcttg ttctgtnoct caatcgtaat 60

tcggaagttt cgcattggag tcattcgctg gtgtcggtaa gctttacgca gccagggcgc 120

atgacttggt gtccgccgcg cctcgccact cagaagcgag ggaagtggta gccgaggggg 180

gtggtcgctg tcgctcactc attggaaagg gaggattgac tntngtgatg gacacgttcg 240

taatttcgaa ctcttggtg aagaaccttc gactccagcc gattatanna aatcttga 298

<210> 17087

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-E7

<400> 17087

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cagcggcgga cgagcacgag gaggagagcc tgagcgtgcg cgaggagctg aagaagcagc 120

tatggctggc tggggccatg atcgccggcg cgctcctgca gaacgtgatc cagatgatct 180

ccgtcatgta cgtgggacac cttggagagc tgcccctcgc tggcgcatcc atggccaact 240

ccttcgccac cgtcaccggc ctcagcctgc tgctaggcat ggcaagcgct ctagacacac 300

tgtgcggcca 310

<210> 17088

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-F10

<400> 17088

ggaattcccg ggtcgacgca ctctccgga tctacacaca tacatagttt cttctactac 60

acgacgacaa acatggggaa gccttgtaga gatcggagag tgggggtggat actccggcga 120

tcgtcgggat ctgagggcta ctccggaccg gctgatcgag gtgaagggtca cggcggacaa 180

cagcagctgc atccgctcca tctccttcat ctacatcgga gccgatggca aaccgtacga 240
ggagggggcca tgggggtttcg gccatgctgg cacggagtac aagattgata tgtgcaggtt 300
cgacgagagc ttgacggaga tctccgggac cacggggcca gcctacaaca ttgacaatct 360
gggtcaagtct ctcaaattcg tcaccaacaa acgcgcttac ggaccgtacg gcagggacga 420
gggcaccccg ttccgtgtc 439

<210> 17089
<211> 322
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-038-Q1-K1-F3

<400> 17089
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tgtgtgacac tggcaacctg agcgtgaate ggcaggattt catcccgctcg gccaatgatt 120
cggagggtga tgcgggccag acacctgtct ctgccacaga gaaaccgtac atcactttgc 180
tctaccgtcc tggccactac gatattctct acccaaagtg aattttgcgc atggttagtt 240
tcacgacttc ggttgagaaa gcacactgcc cagaaaactc gtcattgtttc gcctgtgtgc 300
tgccaaaggt ggcaaacttg ct 322

<210> 17090
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-F8

<400> 17090
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ttcttgatc cctgctagtg ggggccctct cccacagcca ccaagtctgc tctgtccaga 120
gaatcaagtg ccagtgtga ccatgtcac aattctttac ccaccatagc cagaacattc 180
tagggagttg ctggcctata tgaagcttgt tccataatca tctcagaaca cgaagaagaa 240
gtggaagtcc ctgaagagaa gacaacacca cctttggagt ctcaggcagg gtctcgtctc 300

tacttttagca tctgcgggcc tga

323

<210> 17091
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G10

<400> 17091

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cttttgcaaa gagggtaatc gagtgataag cgaactagat gtgaagggtta tctccaaggg 120
ctaagtacct tatgctctca acacagaatt tgttgtagtg tgaaaagcgg atgcctccct 180
cccttttctc ccactttgat gaatagtata agcacaggag atgagatgca acagttatcg 240
gagttatcgg tctacatggc cctgaccagt cgtatgtctc ggctgcctgg tgcagctatg 300
aaaacgtttt gcaatagctt ttttcggcag tcctcacatc atcacggttg tgtttccgct 360
tccatatctg aatggaatac atatacgtat g 391

<210> 17092
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G4

<400> 17092

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tctgatcgtc gcgctcctcc tcgcgaccag gccgctctcc ttgggcggcg gcgcgcaccc 120
gggctactcc gacgccgacg agagcgcggtg cacgggtggac gcgggcgcgg agctgctgcg 180
gcggctggag gagcgcgggc ccggcgggcg cagcatcatc gacatcacgc acgcggtcgt 240
gccggacctg ccggcggttcg ccacgggggc ggtcgcgggg cccatgctgc gcctcagga 300
g 301

<210> 17093
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-G9

<400> 17093

tcccggtctcg acccactctt ccggcttctc tgctgctcg tgaaccacat atacacggta 60

tactgcttgc agtt 74

<210> 17094

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-038-Q1-K1-H7

<400> 17094

attcccttct cgaccctctc gtcctaaaaa acaactctaa aacacacaat cttataaaaa 60

aaacatacaa caaaactaaa ggcagaattt atacaaacac caagccaccc aacaaccact 120

ctcctcacac 130

<210> 17095

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-A9

<400> 17095

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atgcttctag aagttctcat gatgcagtgg aggtgtctga tgaaggcaag actggcaatg 120

aaacattgct ttctgccgag ggaggggaga ggttgggacc atctttaaat ggcaccagcg 180

agggaattaa agggcgcccta aataatgatg gttctgtgcc ccacacttca aaagttgaaa 240

gagaagaggg tgaattgtcg cctaacggag attttgaaga ggaccatttt gttcctttcg 300

aagatggaac atctaaagga aaggaagatt ctacaagcag accattccat ggtaggcctg 360

gggaagtggg accctcttct gccgaggcag ctggtgagaa tgattc 406

<210> 17096

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B12

<400> 17096

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gcaccggaaa tgccacctgc agcacttttc ttccaatcat agttcctcaa attccagcac 120
ctttggcacc acagccgtct caatctcaac cttcagagcc agcaaccgca gtgcaagcca 180
ccagagtcag cagcgttgca gtaactgaga catccacaac cagcagaatt gaggtctgca 240
tggggggcaa atgcaagaag tcaggctctc ttgctctcct gcaggagtgc gagaaggctg 300
tgggcaccgg tggctcggtc gtcggctgca agtgccctggg gaagtgctgc ctaggtccca 360
acgtgaggc 369

<210> 17097

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B5

<400> 17097

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agcctactat ccagcaactgc cggccatcat ttctcccgt gtgcaaactg caaagcaagc 120
aatggacatg ggctttctaca agctctccag caggggctgc ggcatcaagc acaaggcggc 180
ggcgatgccc ttctacccca ggaaaccggc tcatgtggct cccgcgcgcg cgtctgcgca 240
tcatgccgtc agcaaggoga aacagccctc atcgaccacc atgtgggtcga ttccggcacc 300
gccatcgtca accgtgggtcg ccatggatgt tgctggaaac tgcattgg 347

<210> 17098

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B6

<400> 17098

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caaatctctt gcttaagacg catttattaa acgatcacag ctcaatcaat ataaccatcc 120

taacattaaa cagctcataa tatacattac catccatcac aaactacaca accttattga 180
acaactcata gactcacaac aattcaacca acaagtcttg gtcacacaaa cttccacctc 240
atcactgaaa gctcttcaca tcaatacaac atagctatat tgatgaatca tacgttttca 300
tctaaaattg tatattcttg ccctatatca ataattacct taacattata cactgctaatt 360
attctatttt atgatcacca tactaatcta attcacctta tccctc 406

<210> 17099
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B8

<400> 17099

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agttccctga tgatctcaag atatataatt aaagatctca taaaaatatt tactggtgtc 120
ctatcatatg cctatcatac cggtgaagat ctcataaggta tacctacaac actggaaagc 180
tttcatacta tgtatcatat aaaaaaattc tagctctctt atcccaaact acctgtccat 240
ctaaagtatt gctcaatata tttcaatact tctccaaaat gttactatat c 291

<210> 17100
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-B9

<400> 17100

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ggctgctcca gccagctgga ggtatttgag ggactagtgg acgaggtgct cgagagggag 120
gtgctgggag cgtgcctgga ccaggccccc gagcgccgcc gcatccgca ggctttcaag 180
gacgttcagc tcagcatcga ccattgcctc ttcaaggagc aatatagtgg catcagaaca 240
aaggagtcac gtgagcataa ctctaggggt gtggagattt tctcaaatg ctggtttccg 300
gaaaatcgtc caatgagagc aattgtttgt ctttgccatg gttattgaga cacatgtacc 360
ttttttc 367

<210> 17101
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-C11

 <400> 17101

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 aggaggaaga agagcagggt cggagaatcc tgcctgcgcg cgttacgaca agcatatatg 120
 ggggagatca ccaatgtcat ggagtaccag gccatcgcca atcagaagct tccgaagatg 180
 gcctacgact actactcgtc cggtccttag gacgagtggg ctctgcagga gaacagggag 240
 gccttctcca ggatcttgtt ccgtccgcgc atactgatcg acgtgtccaa gatcgacatg 300
 accaccaccg tgctgggggt caagatctcc atgcccatac tgggtctccc cactgctatt 360
 cataaaatgg ctcacccaaa tttggagaac gcc 393

<210> 17102
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-C5

 <400> 17102

 ttcccgtcgc ctccacgctt cctatgtcat accatggggg gtcgttcgat ttctcgaga 60
 aacatcctga cctt 74

<210> 17103
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-C8

 <400> 17103

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 cctctggttg ttccatacga tgataatata tgaattccca tgctcacttt tatctgatgg 120
 ggttcgaaat tcaattcggg accttaaact tcgttggtgt gctctccgtc ccacagttga 180

acttgcccc atgagaagcc taacaagttt acatttgtcc tttgtgagca ttaaattggga 240
 tgggttaaag cgctctcttt ccaactccct tgctctggat gaattatagc tagtatgttg 300
 tgactagatc gtttgccctca atattccttc ttccttgcac ctgtttatca tccttaatat 360
 tttttgattc tcgttctcta aatttctata ttgctattct ttaaattcctt tatttttttt 420
 ttttttcttt c 431

<210> 17104
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-C9
 <400> 17104

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 atactcgaga taatgctacc tctacagtcg gatcacaaaa ccacgtggta ccaacctatc 120
 actcctacta catccaattc tgaacattcc atatagactg ctcatcatct ttactcctca 180
 gatattctta cctgatctac aagtcttctc tctctctaga atctctcatt ccagtttcca 240
 ccaacatctt aacaaatata gaatatagaa tctcaatata tatgaaattc tgccttttaa 300
 tatcatcaa 309

<210> 17105
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-D1
 <400> 17105

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 gaagaagaga gagaagacgt ctctcgccgg tctgcatccc cgttccgcaa cctctcgtct 120
 gctgcctgcc tgccctgctg cctgcaaaaa ggagtttgtc atggcgtcta agcgcatcct 180
 caaggagctg aatgacctgc ataaagaccc catcacatca tgcagtgcaa gtcctgctgg 240
 tgaggacatg tttcattggc aagcaacaat tatgggacca cctgacagtc cctatgctgg 300
 tgggtgttctc ttagtgaaca ttcatttccc gccagattac cccttcaaac ctacaaaggt 360

ttcttttcaag acaaaggtct tccatcctaa tatcaacagc aatggaagta tatgccctga 420
cattctcaaa gagcaatgga gccctgctt 449

<210> 17106
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D10

<400> 17106

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ggctttgaag actccgaccg atgtccctat atctactacg tccctaccta atccttctct 120
ctataaaaact cgagctcgtg cacatggagc tgattcttgg tcgccccaac ctctccatga 180
tctctccctc tctcccgccg tagataatct ctgtctattc tc 222

<210> 17107
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D11

<400> 17107

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cctcccctgc tcgacaacta gttcgaccgc cgccgccccca cgctgctgg ccaggtcttc 120
ggcggaccct ttgccgtcga cgggcatcca ccacaccagg gttttgcaca ttaatgaaga 180
cttaaaaagtt ccagaacaaa gcactaaggg tgctcgaagg aaaaatgctt taggttagat 240
caaaccatgg tttttaaaagc ggtaaggcgg tccaaggcgt tggagcacccg tctggacgcc 300
taggcgaggt aggtgggcaa ggcgcctagg cgtagacca ccgccagac tcctaggcta 360
ctccttaaga acagtggatc aaactgtaga tcttgccact gccttcaagc atcctat 417

<210> 17108
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D12

<400> 17108

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ctccctctgc acccccacgg ccgcgcattgt cctccaccgc catgattggg attaccaacc 120

tactttgccg ccacgacccg ctctctctccc ttccccgggc tacgtcgtcg gccgccccggt 180

cctgtactct gcttctctct cgatgcctcc tccattcttc ttgctgctcc ccttctctct 240

cgtctctcc gtgcggttcc cgggtccgac caacagcatt actgaagctc atccctgcct 300

cctacacctg cttcatgggt ccagccaaca atgatgccac cactcttaaa ctatcatcgt 360

ctgccgacct tctcgcctc cttatcgtcc ccagctccac cgctgtcacc ggacactcct 420

tcagtgtttt ca 432

<210> 17109

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D5

<400> 17109

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aacggcttac taccatcatg taaagctact tctcagagga ggtgaggtcc atgtccccgg 120

ccgtcttcag ccgccacgca cgcattctcc accagcactt cttcaaggag aagttctagg 180

acctctacac ggtctcactc tccgtctcca accaccacca ccaccaccat gctcaccacg 240

actgccactg cttctctcatg ctgcagacca ggatcgagaa gtacatcaac accttcaccg 300

tcaagggtcca ctacgcgatg tagagcttcc tcaccagttc taac 344

<210> 17110

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D8

<400> 17110

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atctcatctc ttcaccagtg gtccttctcg cacaattgct cgccgtcgcc gtcctctctc 120

ttctgtcct gcttcaccaa cgctcatcaa ttgcctccg tcgtcgcagc agcagcagca 180
gatcgccaa gcagggagga cagctcctgc cgtcttcgcc cccggctctg cccatcatcg 240
gccaccttca cctcgtcagc gacctccgc acgtctccct cctgtacctc gccgccaagc 300
atggtgggga cgactgcctg atgctgctcc gtcttggcgc 340

<210> 17111

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-D9

<400> 17111

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cctttcgtcg gcaccaatgg cttactaccg taggttgact actgctcgga ggaggtgagg 120
tcggtgtccc cggccggctt ctgccgccac ggaggcggcg tccagcagca cttcttcaag 180
gagaagtctg aggaggtcaa cacggtctaa cgcgccggcg ccaaccacca ccaccaccac 240
catggtcacc acggcggcca cggcttcttg gtgcgcgaga ccagggtcaa ggaggacatc 300
aacacctgca ccggttaggt ccactagcgc aggtagagct tcctcgccag ggctaactga 360
gccgcccggc ggccggcatc cactcccggt cgtgcctgcc tgctttcctt atgtatgtct 420
ggggttgact ggt 433

<210> 17112

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-E1

<400> 17112

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tccttccatc catccatggc atgctgcatg acctccaga gctgccccat tgccagaaga 120
gcaaagatca acaccaggtc caggggcagc agcagtagcg tggcgaaggg gtcaccacca 180
ccagccttcc agttccagtg cagggcgctg actttcgcgg cggacaccag cctccggctc 240
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ctcagctact acgacctccg cgctacctc gaggcgcagg agacggctgc ccatgcagac 360
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 acagcatacc agaccct 437

<210> 17113
 <211> 55
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-E11
 <400> 17113

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<210> 17114
 <211> 319
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-E5
 <400> 17114

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 ccaaccaggg tgttcaaggg tgccatata taatggttcc tcttggtgga acaccacagg 120
 aactggggca tcaagtgact cttatccgcc aagttgctga gaaagtgttc gccaatgtgg 180
 gcaagactat cgggtacaaa gttggaacaa tgattgagat cccagggca gctctggtgg 240
 ctgatgagat agcttatcat gctgaattct tcttctctg aacgaacgac ctgactcaga 300
 tgacctttgg gttcatcag 319

<210> 17115
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-F1
 <400> 17115

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 agagagaggg tagttgatgt taagcgtgtt atgtgactgc cctttctttt cgctttgctt 120

cctggatcca actgccgcct tctcatcctg tcttcgttga ttcgctgttc ttccatcgga 180
 tgcctttatc tgcctagatc ggatcatgag caaatctcat tgtgtaaate ctgataggag 240
 gaagagaacg accatagttg atcgataccg tccctgtatt gcttgtgcct gtctcgtacg 300
 gctctttctaa caac 314

<210> 17116
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-F5
 <400> 17116

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 tgagccccctt cgcgttgccg gttcacatgt ctctaagcat catggcccta accttctagt 180
 gcgttgatca cgtacttgaa gatagggtgca tgctcatctt aaaacacgac gacgtactca 240
 aagtcgttcc agtgctcaca acactagcta tggagtctta cgcttcgtct agtgcttact 300
 ttatcatctg cgggcctgag actaactcat ctataaaca agatgaatca tcaagaatcc 360
 cttacggggag taggagagtt tctactagat tttgggtgttt cagtggctct g 411

<210> 17117
 <211> 228
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-039-Q1-K1-F7
 <400> 17117

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 aatcctcagg atgaatctga tgaactaatc taaagatgga tagactaaac aagtatcaga 120
 acaaggatga tcgtcaagtg gacttcacct aacatcacta acctagtgtt attcatgcaa 180
 acccattgca tttatcatct ccttgtgttt taaaaatctt tttcactt 228

<210> 17118
 <211> 184
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F8

<400> 17118

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acttaggaaa gatcacagac tttttctaca gaatagaggg actaaacaaa tacaataaca 120

atgatcatca taaagccaac aatccttacc atcactaaca tagctttaat cttccaaaca 180

tttt 184

<210> 17119

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-F9

<400> 17119

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tagatgggcy cctacacccc gacgactcag acgttcactc attgcggtctg gtactcaacc 120

gattctccga cctcaccaac tactagtacc gcgccaacta cctcggcgctc aagagcaggc 180

cacagaggca gagtacgctc catgacatgt acctaccccg caacaactag cacatgccac 240

aatccgctga cttgcggtcc aagggtcct tccacgaaat ccaagaccaa tccatccacg 300

ttagacgcta gcctgactga actatagcgg accacgaacg catcactaca acatggacta 360

tcgaccaaact ctctaaact catcaccaac ttactcac 398

<210> 17120

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-G1

<400> 17120

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gagactttcg ccaagaacct ttatcgtttt gtcattcaact ctgctgggc catgctgttc 120

tcgttggtct gcgtgttccc ggagctgtc gcccgcatct gcttcaagtt cggctagtcc 180

ctatTTTTta tgtctcattt ctcttatTTT tcatctTTTT ttttcctTTT tcttctattt 240
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tttcttctta cttttttatt ttttttttct tttgttttat ttattttttt ttttattcta 360
tattttatct ttttttcttt atcattatta ttctatTTTT tttattcttt ttactttata 420
ttttttttat attttattta atttttt 447

<210> 17121
<211> 246
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-039-Q1-K1-G12
<400> 17121

tcggtctctg attcccggtt cgaccactt cttcctacag tatctactct cacaagtact 60
gtcttgactt ccaattcttc aaacttatct tgaccatttt acatatacaa taggatgttg 120
gatactcaat cgaacatact gaccatgga catctaatta ccagctgcta aatattcagc 180
atacttcaaa caacttactc tacatacgct ccatcatctt catctacatc ttatcctatt 240
acaaac 246

<210> 17122
<211> 398
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-039-Q1-K1-G6
<400> 17122

ggaattcccg gctcgactcc actcttccta gaatagaaag attcagaata aacaattttt 60
ataggattca aataatcaaa taaagtaaag gtttgctggt aataacctta tttatgacaa 120
gtttcaaatt ggtaaagtat acccctagga taaagaagaa gaaggggctg agaaaactcg 180
caagaaaagt tccaacctat cgtctactta aattogaacg ggttttcaaa gcacaaaatc 240
tcatacatat gtctgttttc aaagcacaaa gagttctaga tgagattcgc tggcggtact 300
actaggaaac cgttatgata ctgaatctta ttcttatctg tgcattgtat tccatcttaa 360
agttgggtata ttctgtttca tctaattcat cttattat 398

<210> 17123
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-G7

 <400> 17123

 gaattcccg ctcgacccaact tcttctctgcg catactacca ccctactact ccttttccac 60
 ccacctcacc tgatccctag ctggaactct ttgccgtgcc catcgacatc tategcattg 120
 ctgcaccccg atggetaccc tcgcctccaa gaattgccta tgctcgtgca gctattcggt 180
 cgatgacccc gatccgatcg agtactctac ttcaaccgcc tctgctacca caagggtctca 240
 tacatatgtc tgttttcaaa gcacattata tt 272

<210> 17124
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-039-Q1-K1-G8

 <400> 17124

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 ccctccctct ccttctgtcg ttattctgc acctccgatc gacatctatc acattgctgc 120
 tccccgatta ctacactctc ctccaagaat tgcctctgct cattcagctc ttctttcgat 180
 tacc 185

<210> 17125
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-039-Q1-K1-G9

 <400> 17125

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 gaataatccc accctttgtn cgtcaaactc caaagacacg attgtagttg gattaattcc 120
 caccacaaa cccccacca caagaacttg ttcgatcgaa ttctttctca actaccggcc 180

tcgttaaccc aaggaaggag gcaaagcaaa ggcttctcgc aaggtttccc gtgagcggct 240
tctgcggtcg tctocatgaa cagcatcaag catgctctga tttacagctt cgtggccaag 300
ggctccgtcg tgctgtctga tcacacggcc ttctccggca acttcagcac cgttgccgctc 360
cagtgcctcc agaatcttcc cccaacagc accagatoca cctactcctg tgacggccac 420
accttc 426

<210> 17126
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H1

<400> 17126

attccccgggt cgaccactc gtccatgat aaacttcgga ttctatctct ctcttccatt 60
cttacgtttc catattacac tggaggcttt ctactcaaat ctactaatac tactctaata 120
tgcccattgg tgttccaaaa gtaccttacc gcattccgga gatgaataat caacttcgat 180
tgacttatac aatgttatct atctagaaat gacacttttt ttaggtcaag agattccctt 240
ctagatcact actcatatta cacgtctgat actatatctc aatacacaag atggacatac 300
ccacatgaat ttgtacatta actcccctaa cgggttgcta atctcaagta tcacacttat 360
agatacgatt catacgtcta cacttgatat atattca 397

<210> 17127
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-039-Q1-K1-H11

<400> 17127

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tccaaaggaa accaaaatat ctgctagcgt gctgatggaa agaattcaaa gaggggctct 120
gctagctatg gtgctcatga gagacaagta tgggttcaga agtcaagttc aggctcgtga 180
gtttgtccat tgatgatact ccataaaaa acagggtattg aagtcgtgga gaagtcttgg 240

attctgcagc gcattcttct ttgttagctg ttgatcctgt gaagtatggt aacgaaatgt 300
ccaatgggtca aatgctacca tgaagtgcaa tctcagatct gtcagtcgaa gtctcagctg 360
aaaagagggc tcggctgatt tgattcacag aaatagtga gtaacataac ccggcatgta 420
ngtagctctn cgacaacttt 440

<210> 17128

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H5

<400> 17128

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cacacatctc attaaactcc ttgatagtat ttattcagca tgacctaac aatacaaaact 120
ctaacaactt cgactagctc tacatgtact gctactatct tgctgaaact gtcgatttaa 180
tgagcttacc tgtaatgttc atcgcaacct agtctaaatc aacaactgaa agcttataca 240
gtgctgcctt gtctctggga attgctaacc aactcactaa catactcctg tatgttttag 300
aggatgctag aagaggaagg atatatttac cacattatga tcttgacaa tcatttctct 360
ctgatgagga catcttcaaa agtttcatca cgaacctttt taaaaaattt aattataaat 420
catatcaata aatccaggat atttttttg 449

<210> 17129

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-039-Q1-K1-H9

<400> 17129

cggtcgggaa ttcccggggt gcgcagccgc atccgctgct tttcgttcgt cttcatccta 60
ctcgagggcg aaaccacaaa accctctccc tgccgtactc cggcctacac atgcaggggc 120
gatgactctg ggtagctccg gcgcgggac gagcgtcgtc gttccccgaa acttcaggct 180
attagaggag ctcgagcgtg gagagaaggg cattgggtgat ggaacagtga gctatggaat 240
ggatgatgcc gatgacatct acatgcggtc atggactggg accatcattg gccctcacia 300

tactgtacat gagggtcgca tctaccagct gaagttgttt tgtgacaagg actatccgga 360
gaagccacca tctgtcagat tccactcaag aatcaacatg acatgcgtta atcacgagac 420
aggaatgggt gatcc 435

<210> 17130
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-040-Q1-K1-A4
<400> 17130

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gccaccacca gcagcgggcg ctgctccggt tgggtactcat cttgggccgg ctactccttg 120
ccccgccctt cgccggctcg tggggaaagg agggccacat catggtctgc aagatcgccg 180
agaagtacct gtcggagaaa gctgcggctg cggttaatgc gttgctgcct tagtctg 237

<210> 17131
<211> 134
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-040-Q1-K1-B7
<400> 17131

tccccgggtcg acccacgcat ccgctccggt tcaccatttt ttgatgagtt tagggggctc 60
cccgctctcg cccggcttgg tgtatatgcc agcttagtga tcagtgaacg gagtcatgct 120
tgtgagatta ggct 134

<210> 17132
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-040-Q1-K1-C1
<400> 17132

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ctagctagct gaatcacaat gggctctgcc aagttccatg cgtggcagta gccacgacac 120

gactgtgacg actactaacg ctggcgctcc tgtgtggaac gacaacgagg ctctgactgt 180
 gggtcctctc ggtcccatc tgcttgagga ctaccacctt atctagtagg ttgctctact 240
 tttgcttttag tctcatttat atctgctttg tttatatctt ttttttaatt ttttattatt 300
 tatttttttta ttattttaca ttgtgtttgt tgtttttatt tttatatctt attttatttt 360
 aattattatt atttttttat attttattat tatttttttt atttttt 407

<210> 17133

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-D2

<400> 17133

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 ataaaaacct ttttattatt tttattttta tttttttttt attttttttt ttatatatttt 120
 ttttattttt ttttcttatt ttttttattt tttttccttt ttattttttt ttttttattt 180
 tattcttttt tttatttttt tttttttttt tttttttttt ttccttattt tatttttttt 240
 tttttttttt tttttatttt ttttttattt tttatttttt ttatatatttt ttttttcttt 300
 ttatcttttt tttattattt tttttcatat ttattttttt tttttatttt attcattatt 360
 tatttttttt ttatttttat tttttattta ttttttttta tattttatat ttttttattt 420
 ttcttttttt 430

<210> 17134

<211> 495

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-E6

<400> 17134

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 gccatctggg cctgccaggt cgggctcata agcacggttt ggggctaccg tattgccttc 120
 tggccgttcg gctaggtttt tttttttttt atattctttt ttttttatgt tgatttcttt 180
 attttttttt ttattttttt ttttataaaa tttttatttt atttatttat attttttttt 240

taatatattttt tttctttttta tattttatatt attttatata tttttttttta ttttatattt 300
 ttttttaatt ttttttttatt tttttttttt attgtgtggt atttattatt tttttttttta 360
 tatatatatt attcttaatt tttttttttta tttttttttt tttattttat ctttattttta 420
 tttttttttt atttattatt atattttttta ttttattatt ttaattttta tttttttttat 480
 ttctttttatt ttttt 495

<210> 17135
 <211> 478
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-040-Q1-K1-G6

<400> 17135

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 taggcagcca ggcagccagg gcgccacct tgatgggtggc ctcgctctgcc accgccgtcg 120
 ctctgtcca gggctcgaag tccaccttca gccttcccat ctcccgcgc tccttcagaa 180
 tcctttgctt cttcttcac tgcataattt atccttttca ttcatttttt ttcttttttt 240
 ctttaatttt tattttattta taatttcatt ttttattatt tttttatttt tttttattta 300
 ttttatttat tttatttatt ttatttttgt tgtgatttta tttatttttt tattttatta 360
 ttatattatt ttattctatt tattttattt atttttatat tattttattta tattttttat 420
 tttctattct attttttata atttttttta ttatcttttt tattttattt ttttttat 478

<210> 17136
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-A8

<400> 17136

catgaaagct taggcacaga tttattaaac tggatattta attctccata tactgaaata 60
 ctcaagaaga acataatgaa tatacacaca catatatatc tacatattta ttgtaataat 120
 accatcaccg ttaactacgt caataacatc acatgaatat tttattcgca tctggtaaaa 180
 gccaa 185

<210> 17137
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-B12

 <400> 17137

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 tccgcgaagc tcgccggcctt cgcgctncga cctcaacgca actggggggg ggcgctagca 120
 cagatgacac gcccaagagg ctgacctacg acgagatcca gagcaaaacg aacatggaag 180
 tgaacgtcac aatcacgtgt aaccagtgcc cgaccatata caactgagtg cactcagtgc 240
 ctgtcaagga cctcaagtac catatgaaca acatgcacct gtaccccaac tcctt 295

<210> 17138
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-B7

 <400> 17138

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 ttccatgctt tccttcgctc gtcggcaagg acaagatata tagtgctagc tgttctgtgc 120
 tgcggtcgtc gtctttcttat ataagacgcc aacgacgcat gtctctggag cctgccgagg 180
 ccaggatata gagggctcgc cgggcccggc cactgcacgg tcggcggata tggctgtcga 240
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 gacgaccggc gacgaagcta gatgcgcgac tgcgcgaccg agccaccagc aggctttcca 360
 gctccagcag gctcgtgtg tgggcg 386

<210> 17139
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-041-Q1-K1-C10

 <400> 17139

actcggtcct gaattcccgg gtcgagccac gcgtccgcga gcagaggagc gcgtacctcc 60
aatagcaaat caaccagcca gccgcctcgc cggaagagta gtctaaggct aacaaggagt 120
tccgcaagct ggagagcacc atggagttga tcaaagacct gagatcgaaa caggaggaaa 180
tcgaggggtct caaatctttg gtagcaaatg atcatgaaga gaaagacatg catgagatgg 240
cagaagagga gcttcttggt gctgtcgagg aggagaaacg attgcagcat gaactgttta 300
gatcgctgct tccaaaggat gaagcagatg aaaaggattg catattggag gtgcgggcag 360
gaactggagg agaagaggct tctttgtttg caatggatat attaagaatg tacgagaaat 420
a 421

<210> 17140
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-041-Q1-K1-C3
<400> 17140

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cgtacgacga cgacgacga ggccgacac atggcatccc agctctccgc cgccgtgccc 120
cggttccacg gcctccgggg ctacgccgcy cccagggtccg cggtggcagc gctgccgtcc 180
gtgaggggtgg gcaggaagag gtcgtcgtcg cagggcattc gctgcgacta catcggtccc 240
gccaccaacc tgatcatggt gacgacgacg acgctgatgc tgttcgcggg gcggttcggg 300
ctggcgccgt ccgcgaaccg caaggcgacg gcggggctga agctggaggc gcgcgactcc 360
ggcctgcaga cgggtgacct cgccgggttc accctcgccg acacgctggc ctgcg 415

<210> 17141
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-041-Q1-K1-C7
<400> 17141

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cgtcacacgg gcgctgcaca cagacacacg caagggctcg caccaatggc tgactaccag 120

gaggtggact actgctcgga ggaggtgagg tcggtggccc cggccggctt cggccgccac 180
ggcggcggcg tccagcagca cgctgtcaag gagaagttcg aggaggtcga cacggtcgca 240
cgcgccggcg ccaaccacca ccaccaccat ggtcaccacg gcggccacgg ctctgtggtg 300
cgcgagacca gggtcgagga ggacatcaac acctgcaccg gcgaggtcca cgagcgcattg 360
gagagctttc tcgccagggc taactgagca gcccgggcgg ccggcatgca cggccgttcg 420
tgccttctctg gctgccttat gtat 444

<210> 17142

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D2

<400> 17142

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ctctctcgac cccaagggcc gcgggggctg caccggctac gagaacgccg tcggtctccc 120
cgccgggggc agaggtgacg aggaggagct ccagaaggag aacatcaaga acgcccctc 180
ctccaccggc aacatcacgt tgagcgtcac caagagcaac ccggagaccg gcgaggtcat 240
cgcgctcttc gagagcgtgc agccgtccga caccgacctc ggggccaagg cgccaagga 300
tgtcaagatc caggggggtct ggtacgtca gctcgagtga ttcgagtgtc taactgctat 360
gtgtccgacc gtcgtcatgg atcttgggaa g 391

<210> 17143

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-D7

<400> 17143

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gattctagag aaagtgcgac aaagtgaagc gaaagagttt tctttgtata agaattaggt 180
ctatatcata tctaaataga agggaaatca aaaagaaggg aagtggggat tacattggat 240

gaatccttaa ggaagacata tcacaaaaga aataaaggct aaagtaagcg ctccttgct 300
 ttggtttgag caaacagat tcttgtttca ccgaggaaaa gagagaagtt ctggataaat 360
 tgacaatgtc aacttgaatt gactaattca gttccgccta ttccacatta atgggagtac 420
 atttatgttt ctgcttt 437

<210> 17144
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-041-Q1-K1-E1
 <400> 17144

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 acgccggcca gccatggcgg agggctctgct ctctattcg cacagtctcg ccagccccac 120
 atttcaggcc ccagcacttc ccatgagcag agatcctcta gaaagtgagg caaagcgtgt 180
 cctaccacct atgtggaggt cctaagtact cgcatagcgc acttacgagc ctgccaattg 240
 gaaccgaagg ttggaggtga atacaatgcg ccattctcatg acgcagactt tgtcttcttt 300
 cacaatcagg ctcaccattc cctaagca 328

<210> 17145
 <211> 108
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-E10
 <400> 17145

cggctctgga attcccggn tcgacgccac gccgtctcgc gcctcagtct tggctctcgc 60
 cttctgggct tctgtgcan ntctccaag gggatcgtnn nnatggcc 108

<210> 17146
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-E11

<400> 17146

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taacccaagc caaagagtca gagggagaga gagagatgta gtcgtattgg tcgtggcctg 120
tcgaaggttt tcggtgtctc ctgagccaca gctgctgctg ctgctggaac catggagatg 180
gaggccgtgg agtcgcacgg cggcgccggt cgccggacgc ccaagaggga tcgcggcatc 240
tcctgggcct gcgtcttcat cctggcgagt aactgcttcc agttcatcgc ctacttcgcc 300
gngtcgacga acctgggtgaa ctacctcaag gaccgcctgc accagggcag caaagcccc 360
ccgaacggcg tcaccaactg gatgggcact agcgcca 397

<210> 17147

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-F8

<400> 17147

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agaaagatga tgtacgggac gatctgctcg attcccacct ccggtcttct taagctcgcg 180
tagtaattct tcttgctgcc aaatttggtg aagtacgtct cgtagcctgt gcttttgggc 240
actggaatgc tgctcacctt catgaaatcc attgcctgaa agctgaacac gaacatgttt 300
gctttcttgc tgatctcact attcgggtgg tttttaagtt tgctatacat gctcattgct 360
tccttgacc tgcaaagtga atcaaga 387

<210> 17148

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-G1

<400> 17148

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gccagttgca gaaagcgttc gggacaggag taccgaagct gcagcggta gagctggaac 120

gtgcctgcga ggacttcagc aacatcgtgg cgagctaccc acactacacc gtctacaagg 180
gaactctgtc gaccggcgtc gagatcgccg tgggtgtccac catgatcacg tcgagcaagg 240
agtggacaga gcattcagag agctgcttca ggagaaaggt agacgccctg tcgcaataa 300
accacaagaa cttcgtcaac ctgctcggct tctgcgagga ggaagaaccg ttcacatga 360
tgatggtgct cgagtacgcg ccgaacggga cgcttcacga ggcct 406

<210> 17149
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-G10

<400> 17149
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ataaggaacc ggcgctttta ccccccgcc aagaacagga gcaataacaa caaggctcct 120
cgcaacaatc cattctcatc catggcgaag ctcatgaaca agctggtcga ttcgttcgag 180
cacgacgaga taccggacgt cggctgcgtg cgcgcgctgc tggccgagct cgtcctcacc 240
ttcctcttcg tcttcaccgg cgtctccgcc gccatggccg ccgatccga cgggaagccc 300
ggcgacgcta tgccgatggc gacgctggcg gcggtggcaa tcgcgcacgc gctggccgtt 360
ggcgtcctgg tgacggccgg gttccacgtc tccggcggcc acctgaaccc cgcggtgacg 420
gtgggggtca tggttgcgcg gcacatcacc aagcttccgg gcggtgctgt 470

<210> 17150
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-G11

<400> 17150
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cacctgcca ctccagcagg ggggcggcct gtccgagttg tccgggctca ggagctccgc 120
gtcgtgccc atgcgcgga atgccacctc cgacgacttc atgtccgccg tctccttcag 180
gaccacgcg gtcggcacga gcggcggggc gcggcggggc ccgacggagg cgaagctgaa 240

ggtggccatc aatgggttcg gccgcacgg ggcgaacttc ctgcggtgct tgcacggggc 300
 ccgggacccc ttggcccttg aagtcattgg cattaaccac ccccgagcc ttaagcaagc 360
 cgtccaactg gttaagttcc aattcaagct tggcattttt 400

<210> 17151
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-G6

<400> 17151

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 gaactagttg ggtgccccct cctaaagaac cagttgatag ggttgagata ataccaactg 120
 gagatgggta agagtatcct tgcttcgttc ttatgtctta cactaataca cgattatgga 180
 ggtgatggtc acttttcgttt ggcaaaacaa acggtaagta caatttaatc cattttcgtt 240
 gattgtagtt gacttgctgt aatttctggt tataatgttt gtcaaagtga cattcaggaa 300
 gctagcactg gtgcaatgcc cagtgatgtt caaatatacc ttagggggcac agaggaccag 360
 atcctgcaaa tccatattgtg ttgtgc 386

<210> 17152
 <211> 358
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-041-Q1-K1-G8

<400> 17152

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 tggctctctnn ctctgtcttct ccaaccgacc gcccgattgg cngnnattcc agtttcgtac 120
 nncccagagta ccngntccag ctctgttctcg tcccctggga actcctcagc ccccttctct 180
 cgtcccgccc ttcggcacct ttcgtacggc cgcnnccgga ccacaaaccg cgccagnntc 240
 tcgagaaaaat aggaacctcg gaggggaaccg atgtgatgga ggggatgact cnnngccgct 300
 gacccgaaga cccgatgaag ggggtgcccc gtgaccaggn tnactcgccn nngcgggg 358

<210> 17153
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H2

<400> 17153

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agtagcaccg aggggaagacg aggaacgtgc ggacgtcaaa gcaggacttt ggcggggccaa 120
accggttcca ggaggaggcg gactacgtat cgcagcggac gacgaagcag aaatcctacc 180
gaggcaagtc ttggcacaag cgggcctaac acggtagata ggggggagtt gagagaatac 240
gcgcacgaga cagagaatcc ccacacgcac atgctccttg ttggtacctt gtaacaccca 300
tcggtgaggg agatttacgt taaaaacat 330

<210> 17154
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H5

<400> 17154

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ttcctcctct ccatgggtat aacattccga ggtatggtga acaaaatcca tgcataaaga 120
cgactcga gccaatatcc cgcatttat tgctacacca ttgctcattc tatatcctac 180
tcacttttta cttattatcc atgtataaac agcccagtct aaaccattca ttacccatcc 240
aa 242

<210> 17155
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H6

<400> 17155

accggttcgg aattcccggg tggaccacg cgtgcgcgcc cgccagtgtc cgatcccagc 60

tccttgccgc ggcttccagt coctctgccg gccgtggagc tcggccctag ctcagattct 120
 tgcgcgcgcg ccggctgttt ctcccctgcg tgccgtggct gtgccgttcc tgtgtgcgcg 180
 gctcactgct cggcgtccat tcccctgtgc tcaccatggt cgtcgttgct ccctgggtga 240
 agttgccgca cacgttgat cccagctcgg agctccctct gcacagctca gattcagccc 300
 agccgtgctg agttcggcct ttgcttgctc ctgtgcttga gtcctgtcct cccagccatg 360
 gcgcacacac tggttgcctc tgctcgagct cgcgcggcca gagttcccgg tcgccgtgtc 420
 ctgtcgagct tggctccgtg cgtgcgcttt ttttccctt 460

<210> 17156

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-041-Q1-K1-H8

<400> 17156

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 gtcaactgca tcaactgctg tacttggttg tgatcgcttc ttcgtcgcaa atgttggtga 120
 ctctagggct atcatatgca gggaaggaaa tgctattgct gtttcaaagg atcacaagcc 180
 tgatcaaact gatgagcggc agcgtattga agatgctgga ggttttgtga tgtgggcagg 240
 aacatggcgc gttggtggtg tacttgctgt ttcgcgtgct tttggtgaca aactcttaaa 300
 gcaatatgtg gttgtggatc cggagatccg agaggaagtt gttgatgaca cactcgagtt 360
 tcttatcctt gcaagtgatg ggctgtg 387

<210> 17157

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-A11

<400> 17157

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 caagccccctt ggcgactcgt ttctgagttt cgcagcggcg ctagatttta tttt 114

<210> 17158

<211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-A9

 <400> 17158

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 tcttcttctt ctacacgcta ccgtctcaca ggggtagggc cccctcccgg atgccgctag 120
 ttcgccaccg ccgcccggcc gcccgccgtt cgcctcatca tggccgcctc gtcgaccgcc 180
 acctccgtcc acgacttcat cgtcaaggat gcgagcggca aagacgttga cctcagcacc 240
 tacaagggga aggttcttct cattgttaac gtcgcatccc agtgtggctt aactaactcc 300
 aactacactg agctggccca gctctacgag aagtacaatg accaaagctt tgaaatcctg 360
 gctttcccat gcaaccagtt tgggtggcag gagcctggta ccaatgagg 409

<210> 17159
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-B4

 <400> 17159

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 tttttttttt tttttttttt tttttttttt tttttttttt t 101

<210> 17160
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-B6

 <400> 17160

 gaattccccg gtcgagccac gcgtccggcc gtctcgacg ttccttccca actccgcagc 60
 gtagcctctc cgcgggcgca tccagatcca ggttggtcag catgggcctg gtgaagggaag 120
 gcatcgacat ggaggaggga acccttgaga tcggcatgga gtacaggact gtatctggtg 180
 ttgctggggc tctggtcata ttggataaag taaagggccc aaagtaccaa gaaattgtaa 240

acatccgact tggagatggc accaatcgcc gtggtcaagt cctggaagtt gatg 294

<210> 17161
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B8

<400> 17161

tcttgaattc ccggatcgag ccacgcgtcc ggaagagact caactcctac gtcgccctcg 60
cgctcgatac gctttgcgca ttagccttaa ctgtggttgg ggggcaaaga ttcctcgaga 120
cttcgaagat tatgccagct ggtgtccttg ctggcctcag tgctgtgatg tccgcgtttt 180
atctgttcaa aattgcaagc ggccgcaacc acatcccacc aaagaaagag taaactggac 240
tctaacttgt aaagtatgtt cgattgaact cggaagacta ctagccactg cgta 295

<210> 17162
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-B9

<400> 17162

cccggctcga cgcacgcgtc cgatgataaa ctgcggattc tatctatctt tttcttctta 60
acgttccatt tttaaggag ggtttttact taagttgggt gatattaatc taatatgccc 120
attggtgttc caaaagtacc ttaccggatt cccggagatg aagaagcgac ttgggttgac 180
ttatacaatg ttatgtatcg agaaaggaca ctttttttag gtcaagagat tcgttgcgag 240
atcaciaaatc atattacagg tctgatggta tatctcagta tagaagatgg aaatagcgat 300
atTTTTTTgt ttataaactc cctggcggg tggctaattc caggaatggc gatttttgat 360
acgatgcaaa cggtgacacc tgatatatat acaatatgcc tcggaatagc cgcg 414

<210> 17163
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-042-Q1-K1-C12

<400> 17163

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gccactaccg cgcccccttcg cacgtcccgc gccactcccg ccgtctccga cgcgccgtcg 120

tcagcctgcg tccgatggcc tcgtcgacgg ctcaggcccc cgcgacggcg ccgccgggtc 180

tgaaggaggg catcgcgggg ctgtacgacg agtcgtcggg gctgtgggag aacatctggg 240

gcgaccacat gcaccacggc ttctacgact cgagcgaggc cgntcccatg gccgatcacc 300

gncgcgcca gatccgcatg atcg 324

<210> 17164

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D1

<400> 17164

aattcccggg tcgagccacg cgtccgacaa gtccgaacga actgaaggag aggaggatga 60

ggaggaatgg cggacgcagc cagaggccgg ggggtcttcga ctctcccggg ggctaacctg 120

cacgcgcttg cagagtcttg caacgacaac ggagccgatg cgccgggtgc cgggaggtac 180

ctcatcaagg atcctagcgc cgaggagggtc gtagccgcgc gcgacagcgc ctgcacgatt 240

ccggtcatcg atttccgcaa gctgctcgat cgggggtcgt acgagg 286

<210> 17165

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-042-Q1-K1-D10

<400> 17165

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ttctctgctc caccacacga cagcagtgtt ggcccagcgc catgccgtcg cgccctctct 120

cagcgcacatg tcgtctcat ggtccgcctc catcgccgtc tcccgcaccc cgccagcccc 180

tggcctcgcg ctccaccac tagtgaatcc tcccgcctcc ggcaaccgcc agagcccggg 240

ggtgtgtgcg gcgtggacgc ggctgtcgcg cggngaggcg gagcagcggc ctcaccgcat 300
gtcgtggaag cagcgcacga acatgtacat gc 332

<210> 17166
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D3

<400> 17166

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ggaggggactt atgtcaccac agacagaaac taaagcgagg gttcaattta aagctgggtgt 120
taacgattat aaatagactt actacaccct ggactacgaa accaaggata ctgatatctc 180
ggcagcattc cgagtaactc ctaatctcgg agttccgact gaagaagcag gagctgcagt 240
aactgcggaa tcttatactg gtacatggac aactgcttgg actgatggac ttaccagt 298

<210> 17167
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-D8

<400> 17167

gagcagtggg cgctacagcc tccatcagct agctgccttg ccgtgtcctc ctcttcctcc 60
tgggggtggc gatctctgcy gaaacccgag cttcgtccaa gccgggcagt agtgcgcgcc 120
gcctgggcyt aattatggat tcttttgagg gctctgatca tataactcaa agaaaggttg 180
ttcctgcaaa acatattgca ttgggtgatg gaaagaatga gcctgctgta gaggggttgc 240
ctaattggttg gctgaaagaa tgc 263

<210> 17168
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E7

<400> 17168

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gaccatgata gctttaacaa tgtcaagcac tggctgggtg aaattgatag ctatgccagt 120
ggaaatgtaa acaagcttta ggcggagaac aagtgtaac tgactgacaa caggaatccc 180
atcttacgag gcatggcaag aagcctagga gatgacatcc gaataccatt acttgatact 240
actgccaagg atgctgcaca cgcgcaaaaa gcatttataa acatcctacg gcatataaat 300
aa 302

<210> 17169
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-E8

<400> 17169
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gtcggctagc cagagtcaca gcagaaggtg aaaggagcgg gatatggggg cggatcgttt 120
cctgagcgtg gcggatggcg gcctcggcgg cgaggcgctc tacttcgctg tcatcctgtg 180
gctgtccgtc atgtcgtgga tcatcttcac ctgggtcggc gacggcggcg aggacgggag 240
gcggcggagg aagcgccggg gcagcccgcg cagcccgggtg ttcgtcg 287

<210> 17170
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-042-Q1-K1-F12

<400> 17170
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gcttggcttc atggtgcaag catccgtaac tcatgccggc cccatcgaca atctcttgac 120
acacctttcg gaccggttca acaaaaatat cattcacaca ttctcctctt cctaagtact 180
cgtcccaatg cccggatgct atggcacaaa aaggtcacaa tgtttttgaa cacaacagaa 240
caacatgatt attgatttac gtccttctcc ccaccgaata ggggaaggaa ggtaggggaa 300
gcgttcaatc aattcaatga gatagtgtaa tctatagcaa actcag 346

<210> 17171
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-G1

 <400> 17171

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 caggcagcca cgctctgccc gttctcggtat ccgctggaaa acgggtcaaag ccaaaccagc 120
 caaatcgcgc gcgggggcgg cggcgacgag aacgagacgg acgcgcgcgc gctagctgaa 180
 tcaggtcagg aaggaggaga gccgccggcg agcacagcag caatgcctta ctgcgaggtg 240
 ggcaggtacg cggacggcga caagtgggag ggcgtccgcg tctactaccg ccgct 295

<210> 17172
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-G9

 <400> 17172

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 gttgctcctg cagtgtgct gtgctggcat gccccagaat tcatgttcac caagttgtgg 180
 tcgagttcca tatgcctacc tacataatca gtgatgcctg cccatatata tacaaccctt 240
 tggttgggtt cagtgaaggt ttctccctg ctcacgaatt ctgtccaaag ataactgaaa 300
 ggtgttggtg cgcagtgtgt cctgctagta ttaatcttct cccagtgccc tagatcgatt 360
 tgcttaagct ggtatgtgcc accccctgtg ctggtg 396

<210> 17173
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-042-Q1-K1-H2

 <400> 17173

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 ttcttgaaga acggtgatgc tgggtgtgggg aagatgattc ccaccaagcc catggtggtg 120
 gagacattct cgcagtatcc tcccctgggt aggtttgctg tccgtgacat gagacagacg 180
 gttgctgttg gagtcatcaa gagtgtggag aagaaggacc cgaccggtgc caaggtgacc 240
 aaggctgctg ccaagaagaa atgatgacgac ctgtcgttga tgcagc 286

<210> 17174
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-043-Q1-K1-A10
 <400> 17174

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 ctgctgcgtc tgggtggtggt gaaggggaga aattcgtgag atctgttccg gatcagggcg 180
 gcgagctcgg gaatcagggg tttcacacat agcttcgtcg atttgaattt gatgtactaa 240
 tggagtctaa ggggtggcaaa aagtctagcc agtagtcgtt ccatgatgta tgaagctccc 300
 cttggetaca gcattg 316

<210> 17175
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-043-Q1-K1-A11
 <400> 17175

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 tctgccttct gattccaagc tcccctaactg cccagcacca acctgccgaa ctccccctct 180
 ttttgttggt ttgtcgaatt ataaattgag cccggccggc tgactaccat gaagccgcca 240
 tcaactggtgc actgcttcaa gctgctggtc ctgctggcgc tcgccaggct gaccatgcac 300
 gtccccgacg aggacatgct atcgccccctc ggcgcgctgc gcctcgacgg tcatttcagc 360

ttccatgacg tctccgccat ggcgcgggac ttcggcaacc agtgcagct 409

<210> 17176

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-A2

<400> 17176

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ttggtcaagg tactgctgca ggacaagctg tagaaggtat tgcgagacag ccagaagcag 180
aaggtaaaat aagaggtact ttattgctta gtctagcttt tatggaagct ttaacaattt 240
atggactggg tgtggcacta gcgcttttat ttgcgaacc ttttgtttta tcctaaaaaa 300
gaaaatgagt ctttagatt agatactttt ttcttttttt agtacattgg catttgctta 360
tgtaattcta agtatatcaa tactttactt tactcctatt tattatatta tttctttttt 420
atattattcc ggaaattttg tatttatcgg gacagacaat accctaggaa cccca 475

<210> 17177

<211> 482

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-A3

<400> 17177

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ccacatgaca gcaacatggc tgaggaggag gccaaagagg tggaggtgga ggtcaccaag 120
gagcccgagg cggcggcgaa ggaggacgta gccgatgaca aggccgtcat ccccgcgacc 180
gaccgacgc cgccgccgcc gccggccgac gactccaagg ccctggccat cgtcgagaaa 240
gttgcatgag aacctgctcc cgagaagcct gccctgcga agcaaggggg ctccaatgac 300
agggatctcg ctcttgcaag ggtggaaaca gagaagagga actctttgat caaagcttgt 360
gaagagaatg agaagacaaa agctgagaac aaggctgcta agaaagtatc cgctattctt 420
tcatgggaaa acacatagaa agcaaacata gaagctgaac tgaagaagat tgatgaacaa 480

ct

482

<210> 17178
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-A7

<400> 17178

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aaccgcgaac ccccggtctc ctgcccgtgg gtggaaccaa ggatgggatt agcctcgcca 120
aggaggaggt ggtggtcggc gaggggctcg cggggatggg gatctcgagg ccccttgtga 180
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ccctgctggc ggcggaacgc gtggccggcg cgggtggaggc ggcgctcggn gaggtggaga 300
ccgcccgcct caggccgagc tggcgcaact tccggcgaag atctcggcgc tagagtcaga 360
catagaagag cgatctcaag aactgaagaa taagatgatg ccatcatgaa cctggagaaa 420
gccattgaag agaagtcaaa ggctattacc tctatgctgg a 461

<210> 17179
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-A9

<400> 17179

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tacgagacgc cgcgcgatcg gacgcaggcc gacgccgacg accgctctcg ccgcccggcg 120
ccatggcgta cggcgaccgc gtcaccacct tcgaggactc cgagaaggag agcgagtacg 180
gctatgtccg caaggtctct ggacctgtgg ttgtggctga tggaatgggt ggtgctgcca 240
tgtatgaact tgttcgtgtc ggacatgata acctcattgg ggaaattatc cgtcttgagg 300
gcgattcagc tacaatccaa gtttatgagg aaacagctgg actgatggtt aatgaccctg 360
tattgagaac aagaaagcct ctttcagttg aattgggacc tggaattctt ggaaacattt 420
ttga 424

<210> 17180
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-B11

 <400> 17180

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 gtagaaatgg tagcagcacc atttcaggggt gggcaacaac caaaagctgg tacagaagtt 120
 gtttctaattg tgctactggg ctccagtgtg ttcctacaca atgttgggtct tcagtctgcc 180
 ttcaagaaaa gctccacaac aactgtttcg gcaatggctc aacaacttca ggatgaacta 240
 gagatcgaga agcaagaaaa agatggcctt caggaagaag tggaaacctt gaaggcttaa 300
 gcacaagcat ctgaggagac cactgatagt atgaagaggt cgatggaaga aaataacagc 360
 ctcttcgctc tactattaag cttcaatcga ggccaagtgc ctccatctta agtctggttg 420
 accactatag g 431

<210> 17181
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-B2

 <400> 17181

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 cctatatgcc gtaccgcccgt tcatcacaac tgtcctgtaa aaagtccggg gtggacgccc 120
 gcacctccag aatcacgtgc tccctacagg acgtcaccat caggtaacatc gacgccacta 180
 atctcgccga cttctcgctc tctacctatt cactcctcgt ataggacgcg agcgcatata 240
 gcactcccaa taggctgacc tacgacgaga tccacagcaa aacgtacatc tacgtgaaag 300
 gcacacgcac tgtgaaccag ttcccgacca tctactgact cctaaaatct ttcccgttc 359

<210> 17182
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B4

<400> 17182

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agagaatcgg ttttgcttgt ctcagcacgg ggtgtgctgc gtctggtggt ggtgaggggg 120
agaaattcgt gagatctgtt ccggatcagg cgtgcgagct cgggaatcag gggtttcaca 180
catagcttcg tcgatttgaa tttgatgtac taatggagtc taagggtggc aaaaagtcta 240
gcagtagtcg ttccatgatg tatgaagctc cccttggtta cagcattgag gacgttcgac 300
ctgccggagg cgtgaagaag ttccagtctg ctgcttactc caactgcgcg aagaaaccat 360
cctgatatcc ctttt 375

<210> 17183

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B7

<400> 17183

cggaattccc gggtcgaccc ggcggtgcgg acgacttggt tcattgattc ttgaagagat 60
cgagcttctt ttgcaccaca aggtcgagga tgtgttgcaa ctgcggatca agctgcgggt 120
gcggtcgaag ctgcaagtgc ggcaagaagt accctgacct ggaggagacg agcaccgccg 180
cgcaggccac cgtcgtcctc ggcgtggccc cggagaagaa ggccgcgccc gagttcgtcg 240
aggccgcggc ggagtccggc gaggccgccc acggctgcag ctgcggtggc aactgcaagt 300
gcgacccttg caactgctga tcacatcgat cgacgaccat ggatatgatt attatctatc 360
tagcttgtgg aggtggcaga acaataataa gcgaggccca gctggctgtc atacataggt 420
attgtgtggt gtgtgtgaga cagagagaaa caca 454

<210> 17184

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-B9

<400> 17184

actcgggtccg gaattccccg gccaggacgt acgtacgtac gtagatcgat ccatcgatcg 60
ctagctagct gacgaccatg gcgtccctcg gctgtgccgc cagcgtgctg cttgccggcg 120
gcggcgccat ggcccaggag gtgctgctgg gcgcaggcga cggcgggctc gtcttcgagc 180
ccagccagtt caccgtcaag gccggcgaca ccatcacctt caagaacaac gccggcttcc 240
cgcacaacgt cgtgttcgac gaagacgagg tgccgagcgg cgtcgacgcc tccaagatct 300
cgcaggagga gtacctcaac gcgccaggcg agacctactc cgtcaccttc accgtgccgg 360
gcacctacgg cttctactgc gagccgcacc aaggagcagg aatggtcggc aagatcacag 420
tcaactaaag ctagctatcc attccatg 448

<210> 17185
<211> 376
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-C4
<400> 17185

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cgaggagagc gcgcccggaa agaaaaaaaa accctggcgg cggccggggc tccgccgcgc 120
gatgtcttgc acggtggcca tcccgagctc gccagtcttc tcgccctcac gccgccact 180
ctctgcaag gccgcctccg cctcaccgga gccacacgtc cccgcctcta ccgcggcgcc 240
cgcgcccggc gccgccgcgg gctcgccgct ccgcccttc gcgctccgcy cgtgtctgcy 300
ggaggaggtc tccccgtctt ccgccgccca gccgacctcc gncgcagcgg tggctttggt 360
accgagcggg gccgcg 376

<210> 17186
<211> 317
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-043-Q1-K1-C7
<400> 17186

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ctcgatcgga ggagatgggtg acgccggacg ggcttgcgcg gatcgagacg atcggaaga 120
 agaagcatga caacgggtgtg tggtagact acagctcggc gccgggtgcgc gcgcagatca 180
 tcgacgagct gactcgctg cagcgggaagc tgtcggcgcc catgacgccc aaacggtcgg 240
 ggcccaccac tcccattaag ggcgggtgcc acttgctctt ctccggcgcg atctccgagg 300
 aagatcgcca cagcag 317

<210> 17187

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-D1

<400> 17187

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 ccagcatggc gggggcgggg gcgaaggcgg cgggggcgggt ggctctggcg cgcgtgctcg 120
 cgctcgctgg ggccaactcg gagggcgacg cgctctcggc gctgcgccgg agcctcaggg 180
 accccggcgg cgttctgcag agctgggtacc ccacgctcgt caaccctgc acctggttcc 240
 acgtcacctg cgaccgcgac aaccgcgtca cccgcctaga tcttggtaat ttgaacttat 300
 ctggtcattt ggtgcctgag cttgggaaac tggagcatct tcagtatctg gaactttata 360
 agaataacat tcaaagaaca atcccttctg agcttggtcaa tttgaagaat ctaataagct 420
 tcgacttgta caagaacaac atttcgggga caatacc 457

<210> 17188

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-D10

<400> 17188

gttcggaatt cccgggtcga gccacgcgtg cgatgatatt tcagaacaag tccgaacgta 60
 ctgaaggaga ggaggaggag gaggaggagt ggcggacgca gccagaggcc tcgggtcttc 120
 gtctctcccg gtggctaacg tgcaggcgct tgcggagtct tgcaacgaca acggagccga 180
 tgcgccggtg cccgggaggt acctcatcaa ggatcctagc gccgaggagg tcgtagccgc 240

cggcgacagc gcttgcgcga ttccgggtcat cgatttccgc aagcttgctc atccccgggtc 300
gtcccaagag gaatgcccc aagcttggaac 330

<210> 17189
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-D12

<400> 17189

ctcgggttcgg aattccggct cgagccacgc gtccgacgcg gtccaagcac atcaacttac 60
attagcacag aagagaaacg ggcacacgca agtgatcaag gcataggaat attgaccgtc 120
ggcactgggc gacttgatcc ctgggctgcc ggatgaaatg accagcgagt gccgttagct 180
ggtagtctta cgaccaactg gcgaggatc actccatc acgccagctg aagtccaatg 240
tctattcaac cagactacc 259

<210> 17190
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-043-Q1-K1-D4

<400> 17190

tcctgaattc ccgggtcgag ccgcgcgtac gcacgcgcgc agtcactaac gcacgcccc 60
ggttttttcc ttctccttgc tcgttcgctc gccgtggacg gctccgagca gctggaagag 120
tcctgcgcgc gccaaagtac cggagaagct gcgagatcag agtagttgct tgccgctccc 180
gtgccaccaa attagattgg acgtagctag cagctagctg agccgtagtg cgtagcggca 240
gctaggctgc tagctcgatc gttatagctg cgtactagtg gtgtcgcagc agaagcagta 300
gccagcttca gtagccgacg cggtggtaaa agcaactttt tttggacatg gcggcngag 360
gagccccggg gcttgtgaag catgcttgcg gcgtggaaga gctgcggcag ctcccgcgg 420
ggttccgggt cccgcccacg gacgaagagc tcgtggtgc 459

<210> 17191
<211> 160

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-D7

 <400> 17191

 accgtaccgg cggcgttgct cggtttgctc tgccctgcagg ccggcccgca cggactggac 60
 tgtactgtac ctatacacct atatactacg acgtgcacat gtacgagtct acgacgtgct 120
 gctgtaccat actaatacta gtgcgctgct gctcccttgc 160

<210> 17192
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-D8

 <400> 17192

 tccttaattc ccggttcgac gccaggcgct caatcagtgt ccgaggccaa agactgtcta 60
 ggcttttcta aagtgagaag atgattggat atacttgctg tgtcttactg gcagggggag 120
 acgagtgaag ctattattcc ctcttggtgt gatccacgct gttttgcctc tcccccccta 180
 cccgtttcct ccttctctgc tgggtgtttt tctaaattcc tgattgcaa ccgtccctcc 240
 ttcttccctg ccaatactag actctcctcc tcctgccact gctaccgctg ctccctctcaa 300
 ctggttaact ggatcctgat ttgttgagaa tgttaaactg gattcctttc catgtaatta 360
 aattcctctt ttaccattc tactttctac t 391

<210> 17193
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-E1

 <400> 17193

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 atgggtggaag gagttcttct agtgggtggg tctgtagagg ggcctatgcc acagacaatg 120
 cttgttctta ataaagctct agaatttgca catgctgttg ttgcagttgt aaacaagatc 180
 gactgacctt ctgctcgtcc tgagtttgtg gtgaattcaa catttgaact atttattgaa 240

ttaa atgcaa ctgatgaaca ttgtgatttc caaacagtct attcaagtgg aattaataga 300
aaagccagtc tatctcctga caatttagct gatgacctag gacccctttt tgaagcaatt 360
cttagatgca 370

<210> 17194
<211> 261
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-043-Q1-K1-E2
<400> 17194

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cttgggtgaaa gtgataagat tattgtatat actgttcgtg tcaaactgtc ggagaggaaa 120
ctagtgaaac tattataccc tctagttgtg atccatgtc tattgcctct tcccctctac 180
ccgtatacta cttttatgct gcttggtgtt ctaaattcct gattgccggc cgtcccgcct 240
tcttccttgc caagactaga c 261

<210> 17195
<211> 482
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-043-Q1-K1-E3
<400> 17195

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cttccaccta ttaatccacc ccactctctt cctgccccg tccaccgcc tctaccgccg 120
cgagatccgg ctccgcttcc agaagcttct ggaacgcccg ttccatgagc gtctgatcgg 180
ccgccgccat gggctgcgct ggatccaccc ccaaagtcga cgagaacagc aagaaactga 240
aaaggcctaa ggcttgaag catacccaac caattacacc ggcacggctg aaacagatgc 300
gtgatgagtt ctgggacacg gctccgcact acggaggcca aaaagagatc tgggatgctc 360
tgagggttgc cgcagagtcc gatctagccc ttgccccaaac catcgtggac agtgctggaa 420
tcatcgtctc gaaccctgac atgacgtctt gctacgacga gagaggcgcc aagtacgagc 480
tg 482

<210> 17196
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-E5

 <400> 17196

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 tgtttcttaac atggtggaag gagttcttct agtggttgat tctttatagg ggctgtgcc 120
 acatacaatg tttgttctta ataaagctct acaatttgca catgctgtta ttgtattttt 180
 aaacatgata gacataccta ctgctcgttc tgagtttgtg gtgaattcaa catttgaact 240
 atttattgaa ttaaatgcaa ctgattaaca gtgtgatttc caaacagtct attcaagttg 300
 aattaaaaga aaagccagtc tatcttctga caatttaact gattacctta tacccttttt 360
 ttaagcaatt cttatatgca ttaccatacc acacctttaa aaaaaatgtt ccttcaaat 420
 gctttgatct aatacttatt attattaaca caaatgatta atttc 465

<210> 17197
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-E7

 <400> 17197

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 atattcttac agatggcatt cccgtcacta cgagctgatg caacctgatg caatgtaatc 120
 gccaaactgaa aagatgtgat tatgacttac aagcttggag gaatctggtg gagccacgag 180
 cgagtgtga gctccggagg ggctttgaca tcatggattt agacggtggt atcggatggg 240
 aactcctcac ctgatggtc cgttacaag cacggcagag gaccagtgtc aaggccgcat 300
 tggcacaccc gtacttcaac cgtgaagggc tcttggcct ctccgtcatg caaacgtac 360
 ggctgcaact gttccgcga acccagaagg actacagtga agcagcgcgg tgggttatcg 420
 gcctcatggc aaggtcaaga act 443

<210> 17198
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-E8

 <400> 17198

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 tcctcgagaa gctccgcaag gccaccaccg cgcgcgcgct cgtcatcaac gaagacgcgg 120
 acggcggcag ctacaagcgg gcgcagtcga cgccgtcgac cccgacgacg ccggtgacgc 180
 cgtcgtcgtc gacgacgcgg cgcgggcgccg gcaacgtgtg gcgcagcgtc ttccaccggg 240
 ggagcaacct ggccaccaag ggcattggggc ccaacctctt cgaccggcgg cagcccaact 300
 cccccaccgt ctacgactgg ctctacagcg acgagaccag gagcaaccac cgctagatcg 360
 ggcgagatgg atggacagtg aaaaggccat ggtttgctgt cctttggggg aatctaaacg 420
 cacgcatgct ctattatagc ta 442

<210> 17199
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-F12

 <400> 17199

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 cccactcatt ccgctgctga tatttcgttt gggtctcctt tccgtcttgt ccgtcgccga 120
 ggccttcgcg tcgctcccca gctccagcag gcagatcaga tccatccaac cacgaacagg 180
 aaggaaggta ggaggagggg ctgaagttga accatgagtg ccgtcgcggt ttcgtcgtcg 240
 ctgaaccgga acgcgccgct cttcatcccg gcggcgctgc tgcagggtgga ggacttctcg 300
 ccgcagtggg gggacctcat caccaccacc gcctggttcc gcgaccactg gtcccgcgag 360
 cacgcccacc tggacgagat agccgagcag ctcgagttgg tcgccctcct tgccctacgat 420
 gaggatg 427

<210> 17200

<211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-F2

 <400> 17200

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 tgctctccgc taccaccgtg ccaactccagc agggggggcgg cctgtccgag ttccgccgggc 120
 tcaggagctc cgcgtcgtcg cccatgcgcc ggaatgccac ctccgacgac ttcatgtccg 180
 ccgtctcctt caggacccac gcgggtcggca cgagcggcgg gccgcggcgg gcgccgacgg 240
 aggcgaagct gaagggtggcc atcaatgggt tcggccgcat cgggcgcaac ttcttgcggg 300
 gctggcacgg gcgcggcgac gcctcgcccc tcgacgtcat cgccatcaac gacaccggag 360
 gcgtcaagca ggcgtncac ctgctcaagt acgactncac gctcggcatc ttcatgccc 420
 acgtcaaacc cgt 433

<210> 17201
 <211> 478
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-F5

 <400> 17201

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 gcgtgtacag ggttttagta tggttggtcta ggttactttg ctgatcaagg ttccaatgta 180
 tttgttcttt taaacatatg cactccgatc ttatatgat ggaccatttc tttgtgtctg 240
 tgacggcggt tttttcatgc tcggcatggt gcacagctct tgtttctgtg caagattcaa 300
 aattttacc agcaaatttt gttctttgcc aactacgggt gacagggtgac agtgtgtctc 360
 aaattttaca ctataaacgc tagtttggga gccacanaac cggaaaggat tgtacaggct 420
 aaaatattt tcttatttaa atttgattaa gaaagatatt ttagtccttc caatccta 478

<210> 17202

<211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G12

 <400> 17202

 cggaattccc gggctcgacgc cacgcgtccg accagcgact cccgtagctg gaactcgctc 60
 gtcaaaagga gagctcagat ccttcagctt ttcctttcac tctgcttcta gctgctgcat 120
 tcgacgcata tgctgaccaa aacatccagt tctagtttct ccactatagt ttgatata 180
 tacatatgta tagaagggtg aataatctat cactcttgct cgttaccag gaaaaggaaa 240
 cacttcgctt cagctcggtg acagacgacg actcagagca aaatgggtat actggtgatt 300
 acggtggacc tagactgctg tcgctgcaga gccaagatca cc 342

<210> 17203
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G2

 <400> 17203

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 ggtctacgcc ggagcaaagt tcagggcacc agtggagccg tactaagaaa ggaagaggat 120
 gaggatgttt tcttgtggag ctatactagc tcgctgctgc cttttgttac aatgtttgta 180
 cggctcgcaat aaatgtatgg tcgtgtttgc tcgagagcta ctcaggtgat tttgtcgtgg 240
 gagcaccaaa agcagaaaag aacccttttt tttcaatctc tctagattct gacgagtgg 300
 ggtctgcact cgtcgtaatg tcgtttgcct aaactgattt tgatggaaca ggaaatcttg 360
 ctggtcttgc c 371

<210> 17204
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-043-Q1-K1-G5

 <400> 17204

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 ttcaattctt aaggaaagat caatttgatg tccgattacg cgggccagaa gcgctgcctc 120
 aaaaaaagtg aagctgataa ttgcaatgat gaagacattg gctctccgac ctctatagat 180
 gcagaagttg ggaaggaagc aaaattgaag aatcacaata aggaaaggaa gaagaaaaag 240
 actaagttgt tggaatccca gcataacaaa gaagaagagg agatgcggca gctggagagc 300
 tcattgtttg gttcccttta tgctccactg gagtttggca ctgaggtaag ggctgcaata 360
 actcctgacc gggatgcgcc ttttgttttc acagataggt ctgctggtgg tggcatggat 420
 tatcttctta cata 434

<210> 17205
 <211> 478
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-043-Q1-K1-G7
 <400> 17205

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 gagttgttga tcgagggtgag tgagggtgaa aagcacacga tcgtcatgga cggcgggatac 120
 tacgggtgtc gcgatcagcg ctacaggaga ggggtactacg gcggcggtgg catatcaacg 180
 ccgggggtacg ctccggcggt cccgtacggg atgtctcaag tgaacatcga gggcaacggg 240
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 tacgccatga gcgtacgca cgggaaggtg gtgctggcgc cggcgaacct caaggacgag 360
 taccagcact ggatcaagga catgcagtgg agcacgagca tcaaggacga ggaaggttac 420
 ccggcgttcg cgctggtgaa caaggcgacc gtggaggcca tcaagcactc gctggggc 478

<210> 17206
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-043-Q1-K1-G8
 <400> 17206

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ggccgcccgc gccgccgaga cggggcgcg gcagaaaccg gttgtgctgt acccttcgcc 120
 ggggatgggc cacctgggtct ccatgatcga gcttggcaag atcctcggcg cgcggngact 180
 gtccgtaata attgtcgctg togagcctcc cttcaacacg ggcgctacgg cgcctttcct 240
 cgccggcgtc tccgcggcca acccgcccat ctccttcac cgnctgcca aagtcgagcg 300
 cctnnccgcc gtcaagacca agca 324

<210> 17207

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-G9

<400> 17207

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 agagagggac gcggcccggt gtcctcggct tgtacgcaat ccttcgctcg ctgcgaagct 120
 gatccctcgt gttcgccatg gccccagcg tcgccgtgga aaacctcaac cccaaggtct 180
 tgaaatgtga gtatgcagtc cgtggcgaga ttgtcatcca tgctcagcgc ttgcagcaac 240
 aactacaaac acaaccaggg tctcttcctt ttgatgagat cctgttctgc aacattggga 300
 atcctcaatc ccttggtcag caacctgtga cgttcttcaa ggaggttctt gctctttgtg 360
 atcatccatg cctcttgga aaagaggaaa ccaaatacatt gttcagtgc gatgctatct 420
 ctcgagc 427

<210> 17208

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H3

<400> 17208

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 cgtgccttca atgcaattgg tgaaggcagt gcggtgaagg aaattgtcat gctgccaaag 120
 cccatcaagg acaatgcaaa caaggccaga ggaagaccgg acatgccatt tccaggtgg 180
 gacatttcta ttcttacgcg cccacccaac attttggtt tactaaatga ctatgtgcac 240

gaatgctttg tggatgttga gagggattat ctgtgcttga caaaacagta tcccagactt 300
gcaattactc cagaattttc taagggttggg cattttgtac attgaacttt tgttgctgat 360
cgatattcaa tgtggctttt ggcattctct gtcactctag ctaggtcctt ggatgagcca 420
cactattgac atggggttag gtgagtgact catcacggtg cctttatatg gctcg 475

<210> 17209

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-043-Q1-K1-H9

<400> 17209

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tatgtgttcc ttaggggttt gtggaggggc gatggcggcg gctgatgtgg agtaccgttg 120
cttcgctcggc gggcttgctt gggccaccag caacgagtcg ctggagaatg ccttcgcctc 180
ctacggcgag atcctcgact ccaaggatcat caccgaccgg gagacgggga ggtctcgcgg 240
cttcggcttc gttaccttct cctccgagaa ctccatgctc gacgctatcg agaacaatgaa 300
cggcaaggag ctcgacggcc gtaacatcac cgtaaccag gccagtcctc gtggcggttg 360
cgggtggcggc ggtggctacg gcggcggtcg cgggcggtgc ggctatggtg gcggcgcccg 420
tg 422

<210> 17210

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-A10

<400> 17210

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gccgctggcc gccaccggg cctccgtcgc gtggccgctc ccgcgcaagc cggccacctc 120
caccacctcg ctcgaggctg tcgcggcggg gaagaagggc tacaagatga agacgcacaa 180
ggcgtcggcg aagcggttcc gggtgacggg gaggggcaag atcgtgcggc ggtgcgccgg 240
gaagcagcac ttgctcgcca agaagaacac caagcgcaag aagaggctct cgaagatggt 300

gcaagtcaac aagagtgact acgacaatgt tacgggtgca ctgccctacc tcaaagtga 360
taggaaagca aactgagagc tacgggtgtct tcaaaaaatc attaagtttc gttccaccaa 420
attggaatt 429

<210> 17211
<211> 483
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-044-Q1-K1-B8

<400> 17211

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gtgctagtcc cccttccttc catccatcca tgggatgggt cagcaccttc cagagctgcc 120
ccattgccag aagagcaaag atcaacacca ggtccagggg cagcagcagt agcgtggcga 180
aggggtcacc accaccagcc ttccagttcc agtgcagggc gtcgactttc gcggcggaca 240
ccagcctccg gtcgagctg gacgagaacc ccgaggcgat catctcgggg gcgtggccccg 300
ggaactgctc cctcctcagc tacgacgacc tccgcgccta cctcgagtcg caggagacgg 360
cggcccaggc agacgatcag cgcggcgtgg cgctcctgag cgagaccatg tccacacccg 420
tgctggtggc cacagcagac cagaccctgn aggacgtcga gtgccacttc gaggccgtgt 480
cgg 483

<210> 17212
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-B9

<400> 17212

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gcctacagaa ggtatgtatg tggcttctct aagttgggtc tgttgcgcat ttaggaatta 120
ggattagatg attagtggat tactcactca gacaagcatc ttctgcaaca ggcaatTTTT 180
ctgtttcata atcaactggg tctgaaatgt ctcatatcaa ctaatggccg tgagaatgtt 240

atttaggctt atataagtta tacagaagat atttcgttat gataatgcac aaaagttatg 300
 gtgtgcaatg aaaggtatat ttgagagtaa tagaaataga ctcatgtgc tgcatacctta 360
 actgtaagtt tcttgtgtgc gactcatcgt aatcgcaggt gtttctctgtt tccaatttgc 420
 aggtgcaaaa tgtgtttt 438

<210> 17213
 <211> 473
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-C1
 <400> 17213

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 ctgcacacag acacaccaag cgtcggcacg aatggcttac taccaggagg tggactactg 120
 ctcgaggagg gtgaggtcgg tggccccggc cggttcggc cgccacggcg gcggcgctcca 180
 gcagcacgtc gtcaaggaga agttcgagga ggtcgacacg gtcgcacgcg ccggcgccaa 240
 ccaccaccac caccatggtc accacggcg cgacggcttc gtggtgcgag agaccagggt 300
 cgaggaggac atcaacacct gcaccggcga ggtccacgag cgcagggaga gcttctctgc 360
 cagggctaac tgagcagccc cggcgccgg catccacgcn cgttcgtgcc tgctgcgtg 420
 ccttatgtat gtctgtgatt gtgcagggtc atcgtacttg gctagcgtac gta 473

<210> 17214
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-044-Q1-K1-C10
 <400> 17214

gggccggaat tcccgggtgg acccacgct cgcgtgcgag gtggcactgc cgtcctcgtg 60
 ccgggcccgg ccggcggggg gcagccggag ggcgcggatg gtggtgacgc gcgcggcggc 120
 gtcgagcccg aagctgccga acggcgggcg gtcgcgggtg gctgtggtgg gaggcggccc 180
 cgccggtggc gccgcggcgg aggcgctggc caaggcggc gtggagacgg tgctaataca 240
 gcggaagatg gacaactgca agccctgcgg cggcgccatc ccgctgtgca tgggtgcgga 300

gttcgacctg ccgctcgacc ttgtggaccg caaggtgagg aagatgaaga tgatttcgcc 360
gtccaacgtc gccgtcgaca tcggccgcac gctcgcgccc cagagtaca tcgggatggg 420
caggcgcg 428

<210> 17215
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C3

<400> 17215

ggaattcccg cggcgagcca cgcattccacg taactaattt ccagccacac aaaatactga 60
ttctaaatcc taaatcaggc aacagcacgc ctacacagct ggtcacacac accttatatc 120
aagaattcat ttcaaagca ataactttgc ctggtaacg cgagattatg gatatgatgg 180
aagttgcaaa tcctgatgca gttcatgctg tccgtaactt tattaacaac gaccttgcca 240
tgcaacttaa agatgatctt cttgccactg ttaaaagcaa cagagttct gaggcttaca 300
catttaacca tcatactatg gctcggcgca cattcaaaaa tacatgcctc tcataccttg 360
catcattgaa tgaccacat tctcgttagc ttgactgca tgactacaag tctgccacta 420
acatgac 427

<210> 17216
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-C9

<400> 17216

ggtcggaat tcccgggtgg acgcacgcgt cggccatga acgttctggt caccgcggca 60
tcagggtggc tcggcctcta cgccgtgcag ctggggaaac gggctggtct ccacgtcact 120
gccacctgcg gcgcgcgtaa cgtagagctg gtgaagagcc tgggcgcca cgaggtgctt 180
gactacagga cgccggaggg tgccagcctg cagagcccct cgggcaagaa gtacgatggc 240
gtcgtccact gcactgtcgg gaccagctgg tcgacgttcg agcctgtgct ggctgccacg 300
gggaaggtga tcgacatcac cccgaacttg actgccatcc tcaaatacggc gctgcacagt 360

gtgaccttcg ccaggaagcg gctcgtgcc ctgctcctgt cgcccaacaa ggc 413

<210> 17217

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D10

<400> 17217

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tggcgaagaa gccagtggag gaagcgcgcc tggcagcggc ggacgagcac gaggaggaga 120
gcctgagcgt gcgcgaggag ctgaagaagc agctatggct ggctgggccc atgatcgccg 180
gcgcgctcct gcagaacgtg atccagatga tctccgtcat gtacgtggga caccttggag 240
agctgcccct cgctggcgca tccatggcca actccttcgc caccgtcacc ggcctcagcc 300
tgctgctagg catggcaagc gctctagaca cactgtgcgg ccaagcgttc ggccgcgaggc 360
agtactatct cctgggcatc tacaagcagc gcgccatgtt cctgctgacc ctggtgagcg 420
tccctctgtc 430

<210> 17218

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-D9

<400> 17218

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tccgatcgcc atcaccgtcg ctctcgtccg cgtcgaaccg ccgcagcacc ggccgcttcg 120
cgttcccga cccaccgcgc tcccatgcc tgcgttctgc gcgtcgactc gtccttgcca 180
ggggggcggc agcgcggcg ccgggcatg gcccagagga cgagtggggg ccggagccccg 240
agggcgggtc cgctgtcacg ggggcccggg tggcggaggc gccggaggcg agagaggtcg 300
cggagctcaa ggccagcta aaggacgcgc tgtacggcac ggagcggggc ctgcgggctg 360
tcagcgagtc gcgggcaaaa gtgctggagc tcatcacgca gcttgagacg cgcaacccca 420
cgccggctcc tacggaggcg cttacgctc 449

<210> 17219
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-E11

 <400> 17219

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 tcgctcagat ttgcggaaga agatggcgga ggaatctcgt aattcagtag catccggctc 120
 ccaggggcaa actgcaaagc caaggccatt ccccgtagct gatgggatac cgaaaacaca 180
 ggaagagctc acctaataag aggaagcgtt gatgccagag tctccataca caaggttgct 240
 gagaaggatg ggtagatacc ctgaatggta caccacacgc cctgatcatg agactgactg 300
 aatcaagtca tctaccatcc aagtgtccct tttggaagtt ttgcagcatg ataattctgaa 360
 gctgaaactc ggtttatgag atattgtaat attttagtgt tgcaccta 408

<210> 17220
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-F2

 <400> 17220

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 aagaactgtc ttttctgtat actttccccg tgctgttgct accgcgggtc ttatgcaatc 120
 gatcggatca tatagatatc ctttcaacac aacataggtc atcgaaagga tctcggacga 180
 ctaccaaag caccgaaagc agttagaaaa tggattccta tttgaagagt gcctaaccgc 240
 atggataagc tcacattaac ccgtcaattt tggatccaat tcgggatttt tcttggaag 300
 tttcgggaag aaattggaat aatatcgatt catacagagg aaaaagttct ctattgatgc 360
 aaacgctgta cctagaggat agggatagaa gaagaggga aaatcgaaat gaaataaatt 420
 aagaataaag cccaaaaaat aagtcg 446

<210> 17221
 <211> 455

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-044-Q1-K1-F4

 <400> 17221

 ggccccggaat tccccgggtcg acgccacgcg tccgctgagc tcgccccctcc cctcagccat 60
 ggacacgacg acctgcagcc cttcttggtg gccgagccca tcttcctgct cgcgccccct 120
 ctttttccac ctctgcgcgt atcagctcgt ccaacccccca tgggtgtttcc tccctctcgg 180
 ctcccttgct ccctcccat ggcgttcccc ctggatgttg gtgatctggt cccacgggtg 240
 caggcaaattg ttctttccct cctgcagca gcaccttggg ggttgctgag cagcacgtcg 300
 cgcttgcgca gcctcgggtca tgacgttggt caccgcgta accattgggtg tcatacctca 360
 cgtgtcatgt gttcgccgaa atgcctaaac atgtagtctg tcgtcgtcgt atccacagtc 420
 aattttagtc atggtacgct agtgatcgag atgcg 455

<210> 17222
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-044-Q1-K1-G12

 <400> 17222

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 atacatacga catgccaacg gttaaacaag ttagtagaaa tgcaagacag ccaatacgaa 120
 atgctagaaa atcgcccgcg cttaagggtg gtctcagcg tcgaggaaca tgtgctaggg 180
 tgtatactat caacccccaa aaaccaact ctgccttacg taaagttgcc agagtacgat 240
 taacctctgg atttgaaatc actgcttata tacctgggtat tggccataat ttacaagaac 300
 attctgtagt attagtaaga ggaggaaggg ttaaggattt acccggtgtg agatatcgca 360
 ttattcgagg aaccctaaat gctgtcgcag taaagaatcg tcaacaaggg cggctctaat 420
 atggggccc 429

<210> 17223
 <211> 411
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-044-Q1-K1-G9

<400> 17223

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cggcaccaat ggcttactac caggaggggg agtactgctc ggaggagggtg aggtcgggtgg 120

ccccggcccg cttcggccgc cacggcggcg gcgtccagca gcacgtcgtc aaggagaagt 180

tcgaggaggt cgacacggtc gcacgcgccg gcgccaacca ccaccaccac catggtcacc 240

acggcggcca cggcttcgtg gtgcgcgaga ccagggtcga ggaggacatc aacacctgca 300

ccggcgaggt ccacgagcgc anggagagct tccttcccag ggctaactga gcagcccggg 360

cggccggcat ccacgcccgt tcgtgccttc ctgctgcct tatgtatgtc t 411

<210> 17224

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H11

<400> 17224

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cacttttttt ttataaatgt acgggtagcc aatttgactt gtccctgcaa ttccgctcaa 120

ccccctcaa atccatctat aaaacacaca ataataacca taaagtcaat gttcgtggat 180

tgccatcatc cttactaca actatgcgt ccatcaacta ataattgatt ccactgcaa 240

tacctactat g 251

<210> 17225

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-044-Q1-K1-H12

<400> 17225

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gcgattacca acaagggcga gctggagagc atcaacgagg agaacctacg gtcggcatgt 180
 gcgcagctgc ggcatgccat gtccgaatct gacggcgatg gcgccatgga gaaggttctg 240
 ggaatggact ggagtaagaa gcccggagat cctgtcgacc cggcccgta gcgggagtgg 300
 atcgcgggga tagctaggct ggggctcgac actaacttcg tcgtcgtgca cggggcccg 360
 gtctt 365

<210> 17226
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-045-Q1-K1-A10
 <400> 17226

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 tagtgctga tatattttgg gattacacaa gtgcaaaggt tctaacaatg gagggtgattg 180
 aggggtgtaa attaaaccat caagcagtta ttgaaagtca aggattgaag gttctggatt 240
 tgggtcaacat tggatccac tgtagcttga gacagcttct ggagtatggg tactatcatg 300
 cagaccctga tcttggtaat atattagcaa cacctgaggg gaagctggct tttcttgatt 360
 ttggcatgat gagtgaata 380

<210> 17227
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-045-Q1-K1-A12
 <400> 17227

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 caaggccatc aaggagcggc gggcccgag ctacgggtac tactactcgc ggtgcaactc 120
 caccggctcg tcgcgcggcc ggctcggggc ccgcgtggag gacagctcgt gggacctgca 180
 gcagaagcag tgggagtccg ccgtcgggtg caaggcggc gcggtggcgg cggcgaggcg 240
 ggagattgcg caggcgcacc gtcgccaccg gtcctcgcac gagctggcgt gtgggggtgg 300

gcgcctagcc ccagtgcac ctcctcgact gctacgagtc cctcatgtgc ccgtcgggtga 360
cactgggcct 370

<210> 17228
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-A5

<400> 17228

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gcgccaccat ggctcctcc gtgcgggtgt ccctccgcgc cctcgtgcc gcccgtctcc 120
ccaagtccag ccccgccact tcctgccct tcttcgtgt ccttgccgcg gcgctgcccc 180
gacgctgct ccgctccgc tccgtcgcg gcctgccgt cgcgccgctc gccgcctccg 240
actccgcctt cgagtcctcc gtgcgagtta actacgcgga gcccgacgac tcggagaagg 300
ataaggaggt ggagttgttc ggatcgggtg acgacgagg ggcggtgag ttggtggatg 360
accattccgt agaggtctca gccgtgtcg 390

<210> 17229
<211> 72
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-A7

<400> 17229

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tgtgatccct tg 72

<210> 17230
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-A8

<400> 17230

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acgcacgtcg gtcgtcccga gcaggacctg gatcggccga gatggcgacg ccgaacgggc 120
ttgcgcggat cgagacgacc gggaagaaga agcaggacaa cggcgtgtgg tacgacgaca 180
gctcggcgcc ggtgcgcgcg cagaccatcg acgagctgca ctcgctgcag cggaagcggc 240
cggcgcccag cagcccaag cggtcggcgc ccaccacgcc catcaagggc ggtgcccact 300
cgcccttcgc cgtcgcgatc tccgaggagg agcgccacac gcagcagatg cagtccatca 360
gtgcgtcggtt ggcgtctctg acgcgtgaaa ccggggccgaa agtggtc 407

<210> 17231
<211> 371
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-B1
<400> 17231

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gtctggttcc aaagttacca agtaggacat agaattctgg aagcaaattc ctccaaacga 120
gccctaccgg gtgatactag gccatgtaag ggacaagctg tacaacacac gcgagcgtgc 180
tcgccatctg ctggcttctg gagtttctga aatttcagcg gaatcgtcat ttaccagtat 240
cgaagagttc cttgagccac ttgagctgtg ctacaaatca ctgtgtgact gcngcgacaa 300
ggccatcgcg gacgggagcc tncctggacct nctgcgccag gttgttcacg ttcggggctc 360
ttccctggtg a 371

<210> 17232
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-B2
<400> 17232

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gtgtgactgc ggcgacaagg ccatcgcgga cgggagccgg ctggacctcc tgcgccaggt 120
gttcacgttc gggctctccc tggatgaagct ggacatccgg caggagtcgg agcggcacac 180

cgacgtgata gacgccatca ccacgcacct cggcatcggg tcgtaccgag agtggcccga 240
ggacaagagg caggagtggc tgctgtcgga gctgcgagga aagcgccgc tgctgcccc 300
ggaccttccc cagaccgacg agatcgccga cgtcatcggc gcgttccacg tcttcgagg 360
gctcccgccc gacagcttcg gccctacat catctccatg gcgacggccc cct 413

<210> 17233
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-C10
<400> 17233

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tcacgagcgc accgccgcac gttccggatg cccgaccgcc gccgggatcc cgaccggatc 120
cctaattcca aggggtaaac gatgaggccg caccgcggtg ggacgggcgg cgggtggcgtg 180
gggaggcgga aggcggagga cgccgctgct gccgcaagcc gggagtggat ggtggtgccc 240
gcgtcgggtc cggctcgggt ggaggaagcc gggaagcacg cggatgatgc gcgtacaggg 300
cttcccgcgc gcgatctcag ggtactcgac ccgttactct cgtaccgcgc cagatcctg 360
ggccgtgagc gcgccatcgt cgtcaacctg gagcgcgtca aagccctgat cacagccaca 420
gaggtgctgc ttccaaaca 439

<210> 17234
<211> 350
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-045-Q1-K1-C12
<400> 17234

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aggaagaagc ctgagcagca cagacagtga gtaagcaaac acttgacatg tcttgccctg 120
cgagctcctg caccggaaca gtataaacca gcgaccgcgc tggccttgat tattctataa 180
gaacggcgct cgccgtcgcc gcttaccgga acgcactcga cgctgtcact ctccgtcgac 240
gaactcaaac tcgtcctcac ggaggtgggc gaagaaccgg acgggcttgg gctggccctc 300

gacggcgagc tcgaactcga ccttgaaggg gaagttggcc gtgacgcgct 350

<210> 17235

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-D8

<400> 17235

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ctaaaaaaaa aaaatagaag gacggtagag agtagagaaa aggactaatc ataatatcta 120

tctttaaaag attcaataaa aagacagttg gcgggtctct ttgtatgtct tgtccgaaa 180

gaggaggact taatgattat tcgttcgctc gaaccagaag ttaaaattgc tgtggatagg 240

gatactataa aaacatcttt tgaggaatgg gccagaccgc ggcatttctc aagaacaata 300

gctaagggcc ccgatactac cacttggatc tggaacctac atgctgatgc tcacgatttc 360

gatagtcata ccggtgattt ggaggagatc tcccgaagag tctttagtgc t 411

<210> 17236

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-E1

<400> 17236

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cccaagaaac ccacagcagc cgctaggcgt gaggatggcg gacaccggtg acgtcgccgc 120

cgccgccgag gcctcggcgc gaccggcggg cagcagcagc acccagccgc tggcggggcg 180

cgtggcgatc gtgacggcgc cgctcgccgg catcgccgc gccatcgcca cgcacctgtc 240

ctccctcggc gcgagcctgg tgctgggcta cgcggcgcgc gccgacgagg cgggcgcgct 300

ggcggcgctc ctcccgcgcg cgggtggcgt gcggggcgac gtctcgacg aggcgggcgc 360

gcggtcgctc ttcgaccgcg cgacgaggcc ttcggcggct cgcacattct ggtg 414

<210> 17237

<211> 454

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-045-Q1-K1-E11

 <400> 17237

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 cttttctgtg gtgcgggtgcg ttcaagatgt ccggatgtac gtgcgcatcg ggttttggga 120
 tcggattgcg cctcctgcga catagggagt ataccgtgct cttttgtttc tccatggatt 180
 gatactttct ctgtcgattc ttatcaggtc ggaagatggt ggatcttccg cttcaaactcg 240
 acgcataaag gacgcagatt agttttattc gcgtcaaatt tattttgctc ggtgtagttc 300
 tgttcattaa ttaataattt tgtactggat ttaagggtgct tttattttga aggtttcttc 360
 tcccggaaat tttcacatcc cgaaacgact ggaaattgaa gtagccattt gatgctgtta 420
 cctgngttca taagttgtta gacttggtat ttgg 454

<210> 17238
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-045-Q1-K1-E7

 <400> 17238

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 agtccatcca cgcggatctg attgctccgg ttcgttcctt tgcgatcttg ctctgctctg 120
 ctctgctccc gagctctgct gattgctggt acttcttctg taagaacccc gctttggaaa 180
 gaaccatgct gtatgtccat gtccacaaaa ctgaccacca gcttccgcat cgggatgcat 240
 cttcagtgtc tatctgcata agcaacaaca acttcgggtc agagtcttat attgcgctgc 300
 cttcagatgt acatggacca gaaagaagtg gtcgatgcc tatgccacca ctccaagata 360
 gagccctgca ttactgaact tgcattgcta caacttgagc atcaaaatcc ttctgttttc 420
 aaggcgactc atatgagact aatg 444

<210> 17239
 <211> 434
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-F12

<400> 17239

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ctgccccgcc gttccttggg gaaggtaacc aggaagggcc cgtcccgtg cccgctgcaa 120
cccgcgctgc tggcgcccc gctcgtgccc ggcttcctcg ggccgncggc cgagcccacg 180
gttgagccgg catcgactcc gacgtccgtg cccgactccg gcctgggggt cctcggtctc 240
gaacctgaaa ggattgctga aggttccatc gataacacag tagttgtggc aagtgagcaa 300
gattctgaca ttgtggttgg aaaggaacaa gctcgagcta aagtaacaca aaacattgtc 360
tttgtaactg gcgaagcttc tccttatgca aagtctgggg gtctaggaga atgttgtggg 420
tcattgccat ttgc 434

<210> 17240

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-045-Q1-K1-F8

<400> 17240

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atccccggcg cgaaatggc tcacgcggcg ctgctccatt gctcccagtc ctccaggagc 120
ctcgagcct gccgccggg cagccactac cgcgccctt cgcacgtccc ggcgcactcc 180
cgcgctctcc gacgcgccgt cgtcagcctg cgtccgatgg cctcgtcgac ggctcaggcc 240
cccgcgacgg cgccgccggg tctgaaggaa ggcatcgcg ggctgtacga cgagtcgtcg 300
gggctgtggg agaacatctg gggcgaccac atgcaccacg gcttctacga ctcgagcgag 360
gccgctnca tggccgatca ccgtcgcgcc cagatccgca tgatcgagga ggcgctcgcc 420
ttcgccggtg tcccagctc agatgatcca gagaagac 458

<210> 17241

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G10

<400> 17241

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ccaaaaccaa cccgtgggaa cctccgcttg aagaggcaaa ccttggggaa aaccctgacc 120

tggcaaggac tatcacctc gaggggggag tcgtctgaca ccattgacaa cgtttaggcc 180

aagatccatg acaaggaggg cattcgccca gaccagcagc ggctcatctt tgctggcaaa 240

cagcttgagg acgggcgcac gcttgctgac tacaacatcc agaatgagag caccctacac 300

cttggtgctc gtctcaaggg aggcattgcag atctttgtga aaacctgac cggcaagact 360

atcacctcag aggtggaata ctctgacacc attgacaacg tcaaggccaa gatccaggac 420

aaggaag 427

<210> 17242

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G12

<400> 17242

ccggaattcc cgggtcgacc aacccttcgg ccaattattt cggttgttga aattcgattg 60

ggctcctcctt tccgcttggt ccgtggcgaa ggccttcggt tggttcccaa gttcaaccag 120

gcaaataaaa tccttccaac cccgaccagg aaggaaggta gaagaagggc ctaaagttga 180

cccttaattg ccgccgcggt ttcattgtag ttgaacccaa aggccccggt tttaatc 237

<210> 17243

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G3

<400> 17243

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agcttcagtc acaggccgga cggtcgggtc acgggcagct agctagctag ccgcgcgccc 120

gcgccatgat gaacctgaac ctgaagcagc cgctcgtgct gcccgcgac cacagcaatg 180
 tcgtcggctc gcgcctgtcg tcgtcgtcgc cctcggcagc cgccgccagc aggaggaccg 240
 gcggcggcgt gtctctcccg tccggctccc ggcggcacgt gcggctgccg aggatcagct 300
 gcagcgccac cgaggaggtc agc 323

<210> 17244

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-G4

<400> 17244

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 atccatctct tactaatcta aataggatga gacattgtct atagggggcc gtctacatag 120
 ccagcgatat caacacaaat gacattctga tcctgaagat ggttcacatt gaaaatgacc 180
 acgatctgta gctattcacc tattttaact taatagatca ttctgcagcg tttccaccat 240
 gtcttacatc gacgatctac aagcacgtca gtacc 275

<210> 17245

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-045-Q1-K1-H12

<400> 17245

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 cggagccgac gctggtgacg aagcgcgccg ccgtgagcgc ggcgaagctg gtgccgagcg 120
 acatggcgag cgcgccggcc atgaggaagg cgttggcgag cacgaggggtg cggcggcgcc 180
 ccaggtggtc ggccaccag ccggcggcga ggatggacgc gagcatgaac acgttcatgg 240
 atcccgccag cacctcgacc tcgcgctcgg tgagccccac gtctctccgc atgaacagct 300
 ccgcgcgcgt catcagcgtc aggtctgcag ggcacgtata tgggtcggtc gtaagcccat 360
 gtagcatggt ggtgacggag gcgagcgtgg cgc 393

<210> 17246

<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-045-Q1-K1-H7

<400> 17246

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accctttgat gcattgcttt ccttgatgtc cggaccttta tagatacttc tgtgaagtat 120
caaaatatga tttacaaaaa tgcttagcct tgcttagatc ttgtggatag aggttgctcct 180
cagtctaacc cgggagagga tggcttctac ctgcaagaat attttcattt ggagcaatag 240
tgggatctta ctgcaaagtt ccctgtgatg ctctttcatc ctaaggaaca gacacaatcc 300
taaggatgga aatacttana ttgagacttg ngttaggaac aggtgacgtt ctaccaggt 360
tggttaagga ttaatgcgta tgtaggcgtg ctgaccgagg accctttaac tggtcacatg 420
cctcgtcatg ggtaagcctt g 441

<210> 17247
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-A11

<400> 17247

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gcagagatgc tttatgggtct gatacatgga ctgtacattc tgaccagtaa aggactggct 120
gcaatgctgg agaagtataa gaactatgac tttgggcggt gcccgcggtt ttactgctgt 180
ggtcaaccat gcctgccagt tggacaatca gacatccatc gatctagtag cgtgaagata 240
tactgcccc aagtgaaga catctactac ccacggtcca agtaccaagg caacatcgac 300
ggcgcatact ttgggacaac gttccctcat ctgttcctga tgacatacga gcacctcaag 360
ccacagaagc tctcgcagcg ctatggctcct cgtgtctttg gcttcaagct ccacaagcca 420
tgaacctcat gtatttgtct ttt 443

<210> 17248
<211> 287

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-B10

 <400> 17248

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 ggacgcctcg cagcacaagg tgactgtgag gggcaccgtg gacgccgaca cgctcatcaa 120
 gaggtgttac aagtccggca agaagggagt gccctggcag tgtcaccgcg ccgccaagaa 180
 cagcgagccc gcgccggagg ccccgccggc tccgcagcct gccggcgacg gcggcaagga 240
 tgctgctgct gctgctgctg tggccgcggc ggacaagaag tccgagg 287

<210> 17249
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-B4

 <400> 17249

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 caatccagcc ccagccgacc gaaacctctc cggctctcccg gctctcgacc ggcgaccgcc 120
 atggccgccg cgacagacaa gaccgctgag gacatccgcc gcgagctcca ggagctccag 180
 cgtcagcacc gcgagatcac cgagcgccctg cgcgaccccc gtggccttcg ccgcgggcgcc 240
 cccggccctg gtcctggacc cgggggcccc cgcccgtctc gcggctttgc gagaccgct 300
 gtgggtccgg aatcggggga tcaacctncc cagaagcgtc ggctgctatc agccgtagtt 360
 aaggtggatg gggctgaaca taacgaggaa ggcacaaagg atgcggatgc cgagggggcat 420
 gggac 425

<210> 17250
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-C1

 <400> 17250

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cggaagctca agttagaaga ggcaccagtg ggtgatcgat ggcggcccaa gctctcctct 120
ccggccggca gctgctgggc cgccccgtgc agtcggccgt ctctaggteg tcggcgaagg 180
aaggcgcccc ttcgctgtaa gggccagctc cagccctcca gccaaagcaag gtgccgacag 240
gcagctgtgg ttcgctcca agcagtcctt ctcctacctc gatggcacc tgcccgcgca 300
ctatggcttc gaccgctgg gcctttcgga cccgaagggc accgggggct taatcaacct 360
caattgcttg gcctacggca aggtgatcaa cggcc 395

<210> 17251
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-046-Q1-K1-C10
<400> 17251

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tccctcccga ccaccgccgc gcgcctcggg gcggcggcct tcgcctaccg gtcgccaag 120
gtcctctccg ccaccgccct cccgcgtgcc gccgccttcc ctgcaatcgc cgtcgcggcg 180
gcgcccctgc gcccgcgccg cgcgcgaggg ccggtggcgg cccgggcccg gggcgaggag 240
cgggagacga tactgtccc cgggtgcgac tacaaccact ggctgatcgt catggagttc 300
cccaaagacc ccgcgccac ccgcgagcag atgatcgaca cctacctcaa cacactcgcc 360
accgtcctcg gcagcatgga agaagccaag aagaacatgt acgcattcag cacgaccacc 420
tacaccgggt 430

<210> 17252
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-046-Q1-K1-C5
<400> 17252

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atgtcacgctc gaggtactgc ggaaaaaaag aggcgcaaaa tccgatccaa tttttcgtaa 120

tcgattagtt aacatggtgg ttaaccgtat tatgaaagac ggaaaaaat cattggctta 180
tcaaattctc tatcgagccg tgaaaaagat tcaacaaaag acagaaacaa atccactatt 240
ggttttacgt caagcaatac gtagagtaac tcccaatata ggagtaaaaa caagacgtaa 300
taaaaaagga tcgacgcgga aagttccgat tgaaatagga tctaaacaag gaagagcact 360
tgccattcgt tggttattag aagcatccca aaagcgtccg ggtcgaaata tggctttcaa 420
attaagttcc gaattagtag 440

<210> 17253

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-C9

<400> 17253

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caattgaagc aatttaagca acaaggacaa tggggagccg gacgtttcca taaccataat 120
aacaagggtta accttgata gtaagaattg aacctttgga tctaacaaca aacaacacat 180
ccacaggatg aggaaggatt tcaccttga ggccaatcct cacaccgcgg aaagttcctc 240
gacgtccctt ccccgccgt cgacaacgcc accgaacctg ggcacatcca ggccttcacc 300
gattccgctg ggcattgaa 318

<210> 17254

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-D10

<400> 17254

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ggcctgtcc tgctacctgg ccttggtcgg ctgcaggaga gtgacaaaac tggacaagat 120
tgtccatcta gtgatgacaa gccatctcac tcccagaaga gtgggtatga acacaatttt 180
gccgttccag tccatctacc gaattttgca atgatgccag ccgctcaacc tgctgtcagt 240
cagagtgaga agaagttaag tgaccaccag caccaccagc aacagcagca gccacaagtc 300

agccgaggcc agagtgtgag gattgatctt gcctcttctc agccttttgt gatgcccttt 360
ggctccattg gtctgtctgg atctacccca agtggctcttg ac 402

<210> 17255
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-046-Q1-K1-D12

<400> 17255

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tcgcgcgcct gggatgcttg ccggcgctca gctccaccgc gctgtgaagt ctctgcgcgc 180
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ttaccgcact cgatcgtttc gtctgtctgt cttaatgcca gtccccacgt gacatctctg 300
acgtatgttc acgccgacaa aagaatccca agaaaatgta gagaagcaag cctttggctg 360
atgttcaagt ggtcgacgaa aggccagaac aagaatcatc actgtttatg cggagttata 420
cttaatatga aaaga 435

<210> 17256
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-D9

<400> 17256

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ctaacagcgg ttttcttgca taatacttct atgtttcctc gtaacaaatg ctatatttct 120
aacctattaa cccgcagcgg gctgcactac agcaacactt gttttgtgtt gtgccgctgg 180
atctttccgt ccaccgttac accgtacctt accgcttcct agccctcctg caaaccttct 240
ggcagtgccg aacatgactg cctttgtcaa caaccc 276

<210> 17257
<211> 415

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-E10
 <400> 17257
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 cccccagctc tctccttctc cctgctcggg cggtcgccat ggacgctccg agcagctgga 120
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 tcccgtgcca ccaaattaga ttggacgtag ctagcagcta gctgagccgt agtgcgtagc 240
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 agtagccagc ttcagtagcc gatccggtgg taaaagcaac tttttttgga catggcgggc 360
 gagggagccc cgggtgctggg gaggcattgct ggcggcgtgg aggagctgcg gcagc 415

<210> 17258
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-E7
 <400> 17258
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 tctcaatccg tccgcgcctc catcgctctc ctgtatttgt gctgctgata tgtgtaactt 180
 gtgtttctcc aggtgaaggc ggccgagcac gcggccgaga tggaggcgac ggtggtcgtc 240
 gcggctgccg tggaggccga ggaggaggag gctgctgctg ctgcggcttc gacgccgcag 300
 cggctctgga ggaaacggcc ccgcgcgatt gggagtgggc ggtaccgctc ggtgtccagg 360
 tgtttctccc aatctccctt gctttctca tcctgctgcc gcttttgctt ttaatcgctg 420
 tgacagcat 429

<210> 17259
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-046-Q1-K1-E9

<400> 17259

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gcttctttttg caccacaagg tgcaggaggt gttgcaactg cggatcaagc tgcggctgcg 120
gctcaagctg caagtgcggc aagaagtacc ctgacctgga ggagacgagc accgccgcgc 180
aggccaccgt cgtcctcggc gtggccccgg agaagaaggc cgcgccgag ttcgtcgagg 240
ccgtgcgga gtccggcgaa ggccgccacg gctgcagctg cgtggcaac tgcaagtgcg 300
acccctgcaa cttgtgatca catcgatcga cgaccatgga tatgattatt atctatctaa 360
cttgtggtgg tg 372

<210> 17260

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F6

<400> 17260

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gccatcgctg cgacattctc tgggtactca actggtatca tagggcgctt gattgggcta 120
gagccatcgt taaccatata aatactgcc aaggtgtatta ctctggcgct ggctttgagc 180
atagtgtctt tctttgaagg tgtaaactct tcggtaactg ctgtcgtggt tgtccttacc 240
gggctcatcg gtgcgaactt tgtgctagca gccatggaga aacttgggtc gaacgacccc 300
atctccagag gagtagggac agcttccagc gctcaaggac tgggaacagc agcactggcg 360
gccaaggaac ctgaagcgct ccctttctgc gccatcgctt atagtttcac ggggattttc 420
ggcacgctga tctgctcgg 439

<210> 17261

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-F8

<400> 17261

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actcaactcg ctaccatata acatcccttc ccgctcccaa caatcccaac catacaaaca 120
cacacacact aaaccactgt cgccctctct atcatcataa tctctaacca ctacaaccac 180
caactccccg ctactcctc acctccttcc cctaccatg ctcatccatc ctacccttcc 240
cctaactccc attaccactc tacctctgaa ctaactcata tcaatacgaa taccacccgc 300
tactctcact cagagcactc tctcacctac tttctctact ccaccaactt gaaccactcg 360
ttctttcccc catccctcat ctccaccta gccacaagc tatgctcatc cactctctc 420
ttcacactcc tct 433

<210> 17262
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-046-Q1-K1-G1
<400> 17262

tcccgggtcg acccacgcgt ggcatactt gcacttagct gcaaagatgc caattattca 60
cagagatgtc aagtcgtcca gcatactcct agatgacaac ttcactgcc aagtggtccga 120
tttcgggtgcc tcaaggccaa taccgcacaa ccagacccat gtgacaacat tgggtgcaagg 180
gacactaggg tacatggacc ctgagtactt ccagacaagc caactgactg agaagagtga 240
tgtgtacagc tttggcgctg tactcatcga gctactgaca agaaagaagc ctatcatgga 300
tgatatcgcg gaagacatta gaagcctagc gcttcaattt agtatgctat tccatggaaa 360
taagctgttg gaaatcgttg at 382

<210> 17263
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3060-046-Q1-K1-G10
<400> 17263

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tgcgcctctt gtgctatgct actacggata acgtacgcc aaccacgcc ttcggcggca 180

gtccatttga ggctccctga gccgcgttta cgccgacgcc gcgtcactgc ttccgcggca 240
gactgcgct tcaattcaag ctctccgcta cattgcgacc cttcgccccca cgcgtacctt 300
ctgggtccga gcgtccaacc cagtggctca ctctcactga gtacatatcc aattacagag 360
aagggaaagc cgatgtcttg agtctttcca agtgggcagt actaccgtga gct 413

<210> 17264

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-G9

<400> 17264

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gtgccgatga gcaactgcat aaacagcggg atcaacaagg tctacatcct cacgcagttc 180
aactcgcaat ccctcaatcg ccacctctcc agagcctacg atttcagcaa tggcgtggcc 240
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aagtggtttc agagtactgc tgatgcaatt cggcagttcg actggctttt cgatgatgca 360
aaatctaaag acattgaaga tgtgctgatt ctttctggtg accatcttta ccgtatggac 420
tacatggact ttgttcagag tcatcggcaa 450

<210> 17265

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-046-Q1-K1-H11

<400> 17265

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ggagtgggta ctccatctca aggagggggg ccatggcgctc gctgatggcg cccatggcgg 120
gcgccttctt cctgctgatg aactcgagcg acttcttctt gtacctgagc acggccgtga 180
tcggcacgtg cacgggcgcc atcgcgtcag tggccgtgtc ggcgacgagc gagctgttcg 240
gggccgagaa cttcggcgtg aaccacaacg tgggtgtgag caaca 285

<210> 17266
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-H4

 <400> 17266

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cccgggtcga cccacgcgtg cgcctagttg ttggtttagt ttatgcatgg cgaaaaggag   60
ccttggaatg gtcttaactg aatattcagg gaaaaaaaaa aaaaagaagg aaaagattcc  120
attgagacaa ttatgagttt gattgagttt ccgttactcg accaaacaag ttccaattcc  180
gttatttcaa ctacactaaa cgatctttca aattgggtcaa gactctcaag tttatggccc  240
cttctatatg gtaccagttg ttgtttcatt gaatttgctt cattaatagg ctacagattc  300
gactttgatc gttatggatt ggtaccaaga tcaagtccta gacaagcgga cctaatttta  360
acagctggta cggtacaat gaaaatggct ccattcttag tgcgattata tgagcaaattg  420
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<210> 17267
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-046-Q1-K1-H6

 <400> 17267

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cgaatcggcg catggaggca gcagtagccg ccgcactcaa gtgcgccacc gccgcacgtc  180
cctcgtggcg gcccgcggcc ccgggcgcca cctcgtcccc ctttgaccgg aggcgcagct  240
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gaagcagtgt ggtcagggcc tcctgggtccc cctcggagtc totgccaccg tcctcgtoga  360
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accgcacct gc                                                            432
  
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<210> 17268
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-046-Q1-K1-H7

 <400> 17268

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 ggtctaagct tcgaatcggc gcatggaggc agcagtagcc gccgtactca agtcgcccac 180
 cgccgcacgt cctcgtggc ggcccggcg cccggggcg acccgcctcc cctttgaccg 240
 gagggcgagc ttgacctcg gctccatcaa gggctcggg cggcagcagc tcacctctag 300
 gactaggaag cgaaacagtg tggtcagggc ctactgggtc cctcggagt ctctgccacc 360
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 tcttcacacg cacc 435

<210> 17269
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-A1

 <400> 17269

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 tactagggag tgacagctag gagcaatctg tggagatact atgtaaagt cacaggagtt 180
 ggctgtggt gatgtgcgat aaccgggcca gtgggttctg agcgtaagac gaggtctcta 240
 gcaatgatat gttgtagcgt gactaaatcg agatgagcaa tcaggttggt gtctgttgat 300
 tctttcggct gaccatttcg gctgctgagg ccttgatcct gtatttgaga tgtcaggcct 360
 acttagagca aatgctggaa ggaagcaatg tgctgttct gaggtccctt cagcatcact 420
 tgtaattngt aaagtactca agtacagac 449

<210> 17270
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A2

<400> 17270

cggggtcgaac caagccttcg gtcaaattcc tttcgggcct tttctttttg gcccccttttc 60
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tttccggaag ctcaagttag aaaaaccacc agtgctgac gatggcgcc aaggctctcc 180
tttccggccg gcagctgctg ggccgccccg tgcagtcggc cgtctctagg tctcggcga 240
ggaaggcgcc ctctgctgc agggccagct ccagccctcc agccaagcaa ggtgcctaca 300
ggcagctgtg gttcgcgtcc aagcagtcct tctcctacct cgatggcacg ctgccccggcg 360
actatggctt cgaccgctg ggcctctcgg acccgagggg caccgtgggc ttcacgagc 420
ccaatggctg gcctatggcg aggtgatcaa cg 452

<210> 17271
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-A7

<400> 17271

cggttccgaa ttgccggctg gacccactcg tccgcgctga tatgcccttg agccacgcct 60
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ttccctccct cctctcccc gcgggcccgc agaggcaatt tcgccctcga ttcgacccct 180
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tgtcgcgct cgaatccgcc atgaaggggg ccaaatacaa gggcgccgcc aaggccgatg 300
ccaagctggc ggtgaagagc aagggggcgg agaagcccgc caagggcagg aaaggggaagg 360
ccggcaagga cccaacaag cctaagaggg ctaccagcgc tttcttcgtg ttcattggagg 420
aatttcgcaa ggag 434

<210> 17272
<211> 445

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-047-Q1-K1-B1

 <400> 17272

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 ttccatcgag cagcatggcg cggcggccac ggccgtgtgc ccacctgacg gccacgctcc 180
 ttctgctcgc cgtcgccgcg gcggtcgcca gagccgtcga cggcgacgag aagtgcggca 240
 gcccggtcgg gaacccttgc ggcgagccgt gcgtgtacgc gagcccgcgc tcgtcgtcgg 300
 tctactacc gtcgtcgtcg tcgcccgtgt actcgccacc gtcgcccgtc gagtactacc 360
 cgccgacgac cccgaccccg accacgccct actgcccgcc gtcgtcgtcg ggcggcggct 420
 acgagccgtc gcccgatac acgcc 445

<210> 17273
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-047-Q1-K1-C1

 <400> 17273

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 gcaagggggg cgtgaccatg cgcaagaccg tgggcaagcc caagggtggcg gcgtacgtca 120
 gccctgata cggtcactac cgaatcaggt tcctataaaa cgttctcggc gagccccga 180
 gctacctcac cggcgagttc cccggcgact acggctggga caccgncggg ctgtccgccg 240
 accccgagac cttcgccaag aaccgcgagc tggaggtgat cactccccgc tgggccatgc 300
 tcggcgcgct cggctgcgtc ttccccgagc tgctctcccg caacggcgtc aagtccggcg 360
 aagccgtctg gttcaaggcc ggctcccaga tcttcagcga aggcgggctg gacta 415

<210> 17274
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C12

<400> 17274

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cgccgtgagg catcgcgcgcg tgtccagccg ttctcaggtg atgaaactgc tgagctctgc 120
tgtttctgtt ccaaggtggt tcccaagcag gaggaggaaa actaaggctt acctgggaag 180
gtgtttttcc ttccagtgat gtaataataa gtttataccc gtatatgtaa taatcaactc 240
tttctatatt ttacttatga atgtgaacta tgttattgta aaaaaaacat caacaaggac 300
aaaataaaca tatg 314

<210> 17275

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-C8

<400> 17275

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catggacggc ggatactacg gcggtcgcga tcagggctac agcggcgggt actacggcgc 120
cggtggcatc gcaacgcgcg ggtacgctcc ggcgggtccc tacgggatgt cgcaggtgaa 180
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ccgcgccaac cccaactacg ccatgagcgt ccgcgacggg aaggtgggtgc tggcgccggc 300
gaaccccaag gacgagtacc agcactggat caaggacatg cgggtggagca cgagcatcaa 360
ggacgaggaa ggttaccgcg cgttcgcgct ggtgaacaag gcgaccggtg aggccatcaa 420
gcactcgcgt gggcagtcgc acccgggtgc cctgggtgcc tac 463

<210> 17276

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D2

<400> 17276

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tggcaaatcc tcgcaaacgg aagtggacca ttcaagtga ggattcaatt ggtctaactg 120
 acatcactat tggcaccgga gaggtggagc tagggtcact taaagataca gtacctacgg 180
 acaaaatcgt gactctatat ggaggatggg gtttgtttgg gaagcgagag gctggggaag 240
 ttctacttcg gctgacatac aaggcatatg tcgaggatga agaggaagaa gacgaggcgg 300
 tgagaagcga gattggtgcg ggttacgcct cagacgagga tgtgctggac tacgttagtg 360
 gcatgagcaa ggggactgat ttcgtgggta aagaaaggga aactttcatg gatcttctcg 420
 ccgcgctgct ggtgagcgag gagttccaag gcata 455

<210> 17277

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-D8

<400> 17277

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 gtagcgatcg gccaccgact taaacaaatg acactccatc ttgtaccaca tcacattcat 180
 cacctgatct aatactcacc tcatactcct acagctcaac tccatgctcg attgtctcag 240
 aatataccaa gtgtacatca acatcggtgct gccgtccaac cttccagaca tctacgatat 300
 acaaatatgc gaaccatta gcggatcctt actctacaac actatcattc tctgatctc 360
 acgcactatc tgcatacttg ttcgtcactc cggctacaag ctcttattc 409

<210> 17278

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-E10

<400> 17278

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 aggaggagga ggaggaatgg cggacgcagc cagaggccgg gggctcttcgt ctctcccggt 120
 ggctaacgtg caggcgcttg cggagtcttg caacgacaac ggagccgatg cgccggtgcc 180

cgggaggtac ctcatcaagg atcctagcgc cgaggaggtc gtagccgccg gcgacagcgc 240
 ctgcgcgatt ccggtcatcg atttccgcaa gctgctcgat ccggggtcgt ccgaggagga 300
 gtgcgccagg ctgggagccg cgtgccacca ctggggattc ttccagctca tcaaccatgg 360
 cgttccggcc gaggtgactg ggaacctgat gaaggacgta gctgggttct tcaggcagcc 420
 gctggaagcc aagaaggagt gcgcgc 446

<210> 17279

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-E3

<400> 17279

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 gaaggccaat ctctcgacc cgcactccat caagcacctt ctcgacgaga ccatctccga 180
 ggtcgtgaag agtaagggtc acaccgagga cacgcggctg ggcaactgga agctggggat 240
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 gaaccgcgat ttctctcttg gctgcacgc cctgtatgtg gtgctgaatg tggctgctgct 360
 gatccttagc tacaccaagg agaaggatgc catcctattc acgcacctn ctatgggttc 420
 tttcagcagc actggcctca ctatttcttc taaata 456

<210> 17280

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-047-Q1-K1-E5

<400> 17280

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 gaacttgtgt ttactactaa aatccgagaa gattagggct agaaggaaaa aaatcagtac 120
 gcagccggaa aattcttgat gtggatcgag aaggcagtga agtccgtgtg gtgctcacca 180

cgtgctcgac gtaatggcga aattggaaat cgtagttgtg ctctgtggctg tcaagacgga 240
 ttaaattatt agtgagctgt cgctcgtctc gctcttcgtt ttaatatttc tcatcagttt 300
 agtatacttg cgggtgttaat gtggaccgat gatgtgcgcg taaatcgcac tagtgacact 360
 acaaganact gataaaaaaa aaaaaacata tt 392

<210> 17281
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-E9
 <400> 17281

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 agggtttatt acatcattaa taatattcaa gagttagtaa ccgctctgac ccaagagcat 120
 ccggtggtgc tgatgttctg ggccgactgg aaccagccaa gcaaggccac gtactgggat 180
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 gaggagcagc gcatggctgt cgggtgccaag gtcgaggagc tcaacatggc attatcagat 360
 atcggataat ctaggcagct atagcgctca cattctaact tcatcaaatt attctaataa 420
 attaataagc tggaataaag tctt 444

<210> 17282
 <211> 153
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-F12
 <400> 17282

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 gtagagaagg agcaaaaaac acgggaaaac gataggagta attaacttac acgcacgccc 120
 acgtacgggc ccagggggccg aataaaaatc aag 153

<210> 17283
 <211> 424
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F2

<400> 17283

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ggcggactaa actgggccac ggactaccac ttcttacact acgccttgat cacctacgtg 180
caggtaactc agtacaagat catactgaat cgggagacgc ataggttcac gagcttgtgc 240
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gagctggact gccgcaacat taccgtctac gagggcacat ccctgtgcag acgtggatgc 360
gcaagcagca gcagatacgg tgggtggccgt ggacgctgca gctacagctg tggctggcgc 420
cgtg 424

<210> 17284

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-F4

<400> 17284

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ggatactgaa tgcttacgcc aaagtacctc caaacctaa agtgccttcc aaaaaagtg 180
agtttgagga actggaggct gttcctacat ctgctgctat agacggcccc cttgaacctc 240
cgccagcgtc tgccgctgta gtccttgata ccctgatga atcattaatc ag 292

<210> 17285

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G1

<400> 17285

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cttgagggttc tccgggggttg ggttgcggtgg gtgaacggat cgagatggcg gcgtcggatg 120
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 agagggtcccg cggcttcggc ttcgtcacct tctccacgga ggaggcgatg cggaacgcca 300
 tcgagggcat gaacggcaag gagctggacg gccgcaacat caccgtcaac gagggccagt 360
 cccgcggcgg ccgtggaggc ggcggcggcg gcgggtacgg tggt 404

<210> 17286

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G10

<400> 17286

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 gctacacaac aaccatcctg ttcccgcccg catacaggac tctagctagc tagctagcgt 120
 tgttcggttg tggttgctct cgctcgctct cgttcggctg atcatggagt ggagggacag 180
 cttcttggac ctggcgctca tcccgcctcag cctgctcctg cccatggcgt accacgcctg 240
 gctgtggcgc gaggtccgtc tccgaccgct gcgcacggcc gtcggcatca acgccgccac 300
 gcgcccacta tggggccatcg gcatgatgaa ggacaacgcc aagaacgcgg tgacgggtggt 360
 gcaatcggtg cggaacgtca tcatggggtc gacgctgatg gccacgacgg cgatc 415

<210> 17287

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-047-Q1-K1-G12

<400> 17287

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 acaccaatca ctacaaacat ccattcattat ccattcaacc tctgacattc atacataaaa 180
 ctctctcatcg tataactaac tctttatata ctaacactcc ttattcacat atctccacga 240

tccattctct ccaagtaaat attctccaat cctttaatct tataccttct tactccaaca 300
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<210> 17288
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-G5
 <400> 17288

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 tgccgtccgg gacgacgag aggccgtctg ccagggccg cctcctcttc accgccgcgc 180
 ccgcccgtc cctccgctc cgcccccg ggcgcggtc ggcccgtcc tcgcctcggg 240
 ccaccaaggc tgtggtggca gcgttggtg atcctctcaa ggtcatgata tcaggagctc 300
 cgcggtccgg caagggcaca cagtgcgag tcatcaagac caaatatcaa ctggcgaca 360
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 ccaaggaatt catggagaag ggccagctcg tgctgatga g 461

<210> 17289
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-047-Q1-K1-H6
 <400> 17289

cggtcggaa ttcccgggca agttagaaga agcaccagt cctgatcgat ggcgcccag 60
 gctctctct ccggccggca gctgctggc cgccccgtg agtcggccgt ctctaggtcg 120
 tcggcgagga aggcgcctt cgtcgtcagg gccagctcca gccctccag caagcaaggt 180
 gccgacagg agctgtggt cgcgccaag cagtccctc cctacctga tggcacgctg 240
 cccggcgact atggcttcga cccgctggc ctctcggacc cggagggcac cgggggcttc 300
 atcgagccca agtggctggc ctacggcgag gtgatcaac gccgctacg catgctgggc 360
 gcggtgggcg ccacgcccc ggagatcttc ggcaagatgg gcatcatecc gccggagacc 420

gcgct

425

<210> 17290
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-047-Q1-K1-H9

<400> 17290

taccggtccg gaattcccgg gtttgtatgt gctgcccggtg cctgcaatgt cagctctacc 60
ggccccgcgc ttcgctgggc aagccgggtga aggggcttgg cctgagcatg ggccgcgagc 120
gcgcccagcg gagcattgtg tgccaggcgg cgagcagcat ctccgncgac cgcgttctcg 180
acatggagaa gcggaagctg atgaacctcc tgctgctcgc gccatctc 228

<210> 17291
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A1

<400> 17291

cggaattccc ggctcgaccc tcgtggacgg cgatgcacta cactacacta caccacaccc 60
acccgacgac gatcacacac gcagaagagc gagttcgttc gatcgtgacc gtgacgcaag 120
aagctataag ctagccaaga caggaataat aatggcgggcg tcaacggggg cgagcctact 180
ctgtcccgtg gacgacgacg accttcgagg cggcggcggc agcgggcggc gccgacgtgc 240
tgatcgtcgt gccgaggaag gcggtcgctg cgcgcgttat ggttccccgt ggctgatcgc 300
cagggcagat gcagcacact ggcggtagcc gcgcgggtcca tcaggccggt cacgccagct 360
gagatctgcy acaagggcgt ggacagcctg aaccaggccg atgaaaccag ctcagacg 418

<210> 17292
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-A3

<400> 17292

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 ggcatgttgc ttgggaaact aagcggatgg catgctgtga gatctaagct agtagagcta 120
 ggatatgaaa tccgtgacaa ggaatttgag gacttctttc agctctacac agagggttgca 180
 gagacgaaaa agcgcgtgac ctgtgaagac ttagaagcga tattgtctga tgagatattc 240
 cagcctaagg ttatgtggtg cccttgctga tgtacaggcg acatgtgata cacttgctgt 300
 atgtacggca acagtgaaat tgatagcacc agacggagag gcgaaaatag catgttcaga 360
 cggaacatgt ccagtcgatg catcttacia agctgttgac aaaatcatcc agattccaac 420
 cgctctgcga gaatacagga tgacatcagt 450

<210> 17293
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-A8
 <400> 17293

cccggctcga cccacgcgtg cgttgttctc catcacctcc tccccgcctt aaggggacat 60
 cgctgccgat tcccaccggc tatctaccgg ccatcagagc cccatactcg cccaacctga 120
 aatccttcac ctactcagc ctgaatacct catctcacct ccaccactcc tcacacgcct 180
 tgtacttcgt cgacctaacg gcacccttcc aatgacaggg cgctagcgaa gccgcgcata 240
 ctccctgcat cttcaccgct cgtcacccta accgagccct tccaacgacg aagtcgctac 300
 caaacgccg ctcatcctcc tcacatcttc ctgcgtcctg cgccgc 346

<210> 17294
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-048-Q1-K1-A9
 <400> 17294

cggaattccc ggctcgagcc acgcgcccgc gtgcgggacg tcaggaactt ccaggtcctc 60
 atagagatgt acaacgagtg gccattgttc agggtcaccc tggacctgct ggagatggtt 120

ttcgccaagg gagacccccg cattgccggc ttgtatgacg agctgcttgt ggcggaagaa 180
ctcaagccct ttgggaagca gctcagggac aaatacgtgg agacacagca gcttctcttc 240
cagatcgctg ggcacaagga tattcttgaa ggcgatccat tcctgaagca ngggctggtg 300
ctgcgcaacc cctacatcac caccctgaac gtgttccagg cctacacgct gaagcggata 360
aggaacccca acttcaaggt gacgccccag cgcacgtgtt ccaaggagtt cgccgacgag 420
aacaagcccc ncggactggt caagctgaac ccgc 454

<210> 17295
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-D10

<400> 17295

taccggttcg gaattccccg ctggaccac gcgtccgaag tcacacacca accaaccaac 60
ctgttttgac tgccgatcct actgatgggg gcgggggcac ctgcaagtgc tacaggagga 120
cattcgcttc cattactgcg actgccgacg atcacatgaa ccagtagcgg aggccttagat 180
tgcccacgac cgcaataaat ttcccgcgtg gctcgtacgg ccgcgtcttc gctcgtcttc 240
cgctgcctcc tgacgagggc ccctgccggc gcgcgcggcc atgtccccta tgcgctgcgc 300
aagacagtgc ctgcagatgg gatgcacagg ctgttgccag gtgtccttca caggttcagc 360
actgcagcag cagtagagga gcccatcacg ccgtcaagac atgtgaacta cacaagctg 420
ctcattaatg gca 433

<210> 17296
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-E8

<400> 17296

tcaaccatgc cgatctttcc agttatccgg caaagtcaaa caaactttta ttcatcttag 60
ttacagtatt acacagtaac aaaaaagaaa aaaatatatc atatacaagg agactaaatt 120
caactgcaaa tatatacaat atgtctatgt ttgtatctgt tttttttcca gaaacaccag 180

ccttctccat atacagacat tcccttccat acacaagcta cagactctac agtcctggaa 240
 aaaaaacggt gccagccac ccaggagaaa atcacaaact catgatcaga tatacaggaa 300
 aggacagtca tgatctaaag ctaaattcctt gcaaagaaac atgatggatt ccatgtacag 360
 acctcttcgt atgtgtcgcc actaactata ctct 394

<210> 17297
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-F12
 <400> 17297

ccggctggag ccacgcgtcc gggggatcgg aagcactagg ctgtgacctc taacttcagc 60
 ctcaatattg cgcctcctgg atctgggtgc tctttttaca cgcgctgcta cggcctacca 120
 attttgtcca caagtgetgc acacagctcc tactcctctc tttcttgacg ccgtaccttt 180
 taccacctgt cagctcagta tgcgaaaacc cactctttca accctatatg ctccaacacg 240
 gaatcctact tggcatccta gctttatcac ccttgggtct tgaacattca ttatccctac 300
 aacagccatt accttagacg catttattgg cgcagaacat aagggtcaa cagctgccac 360
 aactcgtgct agcacacctt gctgcct 387

<210> 17298
 <211> 190
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-G12
 <400> 17298

eggctcgagc cacgcgtccg gaggcatagg aagttcactg aaactgttta actttagatt 60
 ggtctgaaca actatgggcc acagaatgtc atgcgtcctt atgcttcttg ctatttgtac 120
 atatattgct aacgcaacaa taatgcctgc atgctcacia gctcctatca cttccattat 180
 tcccccatatc 190

<210> 17299
 <211> 363
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-G9

<400> 17299

ccggttcgga attcgcgggt cgacgccacg cgtgcgcctg ttcagacaca ggtggcgacg 60

gttggtgcga gaatgaagac gaagtaggga agaggatgca cctacatgcc tgcgacaaca 120

atggctgcaa cagattgtgc cagctctgac tcatctagct atggcatacc ctgcttgcta 180

ctttcaacag ctgcttgcat ttaaccaact gactgggtcg cactgtgatg ggtgcctgca 240

actgtgactt ccgagactta ttacactagc tgtgcctaac ccatgggaca ctgaatttct 300

acagcagcaa catattgcta ccatacagac agttctcttt gatgaaccct ggcttgccgt 360

ggc 363

<210> 17300

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H10

<400> 17300

cagcagtgcg acaagcaaga ttaccttcc catttatcat atcgtcaact ggtccgggag 60

ttggcgacac catgagctcc acggagtgcg gcggcggcgg cggcggcgcc aagacgtcgt 120

ggcctgaggt ggtcgggctg agcgtggagg acgccaagaa ggtgatactc aaggacaagc 180

cggacgccga catcgtggtg ctgcccgctg gctccgtggt gaccgoggat tatcgcccta 240

accgtgtccg catcttcgtc gacatcgtc cccagacgcc ccacatcggc tgataatata 300

taagctagcc gctatttctt ttccttgccc cagaacttga aataaatata tatacatga 360

aataacgcgg gcatgccgaa t 381

<210> 17301

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-048-Q1-K1-H11

<400> 17301

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 tttctccgag tgatttgccg tgagcgggca gtgcatccag agcgagcgga gctgagctga 120
 gctgagctga gcgagcttgc gttgcttgag agaccctgct gccatggctt cccaccagga 180
 caaggctagc taccaggccg gcgagaccaa gggcgcgacc gaggagaaga cggggcaggc 240
 ggtgggggcg accaaggaca cggcgcagca cgccaaggac cgggcggcgg acgcgcgggg 300
 gcacgcggcg ggcaagggcc aggacgcca ggaggccacc aagcagaagg cgttcgacac 360
 cggcggctac ctgggaaaga agaccgacga ggccaagcac aaggccggcg agacgacgga 420
 tgccaccaag cagaaggcca gcgagacg 448

<210> 17302
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-048-Q1-K1-H2
 <400> 17302

gttgtttttt cttttttttt ttttgtttct tttttttttt ttttgttttt ttttttttaa 60
 atgaatgttg atgccggatg cctaaccaa tgggcaacct ttttatagat catcccttaa 120
 cttagctttt ctacatccca cattttgcag ctacttttcc ataacccttt acattcctag 180
 ggccaatttc ctttggggtc aaatttccat gagggactag tgtactgttg gccccaaat 240
 tatccattcc tttacattaa ggggcaatac ctttgaaaaa cggaaataag gcttttcttc 300
 aaaatgccta tgcccaaaga gcttataccc acctagaagc cgatccaagc cccaaggcaa 360
 tgtaacacgc cttttt 376

<210> 17303
 <211> 116
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-A10
 <400> 17303

aaagcctata cacgtgtcat cataacgttc attagactct aagtagcata taatacatct 60
 cttactatct taaagtcact acttcaataa atcttacaca aaaaattgtc actgca 116

<210> 17304
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-A2

<400> 17304

ttccccgcgtt gagccacgcg tacctacatt gcatacgatg caggccccgt ccacctggct 60
ccgggggcttt tcggccatgg tectacatat tgcaccattg atatacgcac gttcgaccat 120
agcttgacca ctatctcogt cacctcctac acaccttaca actttgacaa tctgggtcaag 180
tctctcatat ttgtcaccaa caaacctact tacgtaccgt acgatctata cgacgccacc 240
ccgtcctacc tcaacgtaat taacaacgac cacgtcgatg catattaaga tca 293

<210> 17305
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-A3

<400> 17305

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catcttctcc gcgcggagct tgcttccctg gtctgccgct cgtctccatc tctccatctc 120
ccagcagacc gcgcccagct ccagccatga gcgccgacgt cctctctctg tgcttgatct 180
cccagtccctc cgtccctga aaccttcacc cacatgtttg tgaagggtccg gtagtggaga 240
tcttgcgagg tccactgctc tgcgtccta ttccacctgt ctcatccct catcatgctc 300
gacacttget ccctggcagc atgccgtagc agcatctgtg cttgggtccat gctccactgt 360
gccgtgcctg ttctctgcac gcgtcaagct cacgcgctga atccagcccc atgttgacgc 420
gttcatgttc caacttgctg tgccgcgtcg tcatcacttt ctgtcacgag 470

<210> 17306
<211> 472
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-A6

<400> 17306

tcccgggtcg acgcacgcgt ccgccttgat gctgaagcct ctggtttatt gtcacctct 60

aaaggcggac aataaacctg gggatacaaa tactaggagc cttgatgctg aagcctctga 120

accttctcca aagcgtagaa gagaatccag tatagaatca gagaggacta agagtatgga 180

tgtggaagag ccgtcggcaa gtcgaatgag ggattcaaca gttgctgcat ctactgagaa 240

aaatgctgct gatgtttcat cacatgctaa agagatccca caaacattc agccagcaaa 300

ggttactgat gatcactaca agagaagtga tggcgactt gctgctgcta gagcgcgagc 360

actggcccga aagaaaagcg aagaccagca attgtgaagt acaaggcaga aaagtttacc 420

gaccccttgag gtacaatntc atgttntatt caataggatc gtgntaagat gt 472

<210> 17307

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-A7

<400> 17307

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ttccctcccg gtatctctcg ccggggccag ggcagagcca ccgtgagatc tgcccgattc 120

cgcgcgcccg acccggggac tccctcccct cctcgatccg ttccggcggc cgcccggcct 180

agcttcaagt gcgggggatgg tgttctactt caaggcgcgg cccgaggccg gcgactacac 240

catcttcatg ggtcttgaca agtacgagaa cgaggacctc atcaaatacg gcttccccga 300

ggacatctgg ttccatgtag ataagatgtc ctctgcacat gtgtatgtga gattgaataa 360

aggtcaatca atggatgaca tgagtgaagg tttgctggaa gactgtgcgc agcttgtcaa 420

agctaattcc attcaaggta ataaagtcaa taacattgat g 461

<210> 17308

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-A9

<400> 17308

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 gggacaaaga ggtacgatgg ggattctggg ggcgagcgtg agattcagag aaccatgttg 120
 gagttgttaa atcagctgga tggttttgat tcaagaggag atgttaaagt tattctagca 180
 acaaatcgta ttgagagtct tgatccagcc ttgcttcgcc caggtcgaat tgacagaaag 240
 attgaattcc ctttacctga tgtcaagact aggcggcgca tcttcagat acacacatcg 300
 aaaatgacac tggctgatga tgtaaaccta gaagagttaa ttatgtcaaa agatgagt 358

<210> 17309
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B10

<400> 17309

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 tgtatttctt ggcaaagaaa gatatgaact taggtaaggc tgcattgac actgtcgggg 120
 gacttgcagc tgggtgcaact gtcggatctg cagtggaaaa tttcctgcag gttgatatcg 180
 tgccctttct aggcattccac tccccgcgcg tcgttgtcag tgaatttatt ctgttctccc 240
 agttgttggg atcaactgttt gttaggtagg atctgaaatc aagctgtcat cctgatcatg 300
 gcatgtaagt aactgaaatg gttcgtgttc aaacttcaaa gggtcaggga aatgcttatt 360
 ttccgctcaa ggtgcaagca gctgtgtata gcaaacaata catggacatc tctgtccctt 420
 ataaagatca cttgtatcta gttctctc 448

<210> 17310
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B12

<400> 17310

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 ctgtgcggcc tgtgttctgc ggccgcctct ggtgcacatc tccccgcgcg cgtcccgctg 120
 tctgccgaca cctttagcgc tgggaaggat cacaggggat cggcgcgagg cgggggacct 180

gcggtttttg tcgcccggat ggcggcggag cgatgacact ggcgtcggga gcggcgcggc 240
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 gccgacgagg cagcgctttg ccggccctgc gacgagaagg tacacatgtg taacaagctt 360
 gctagtcggc atgtgagagt tggacttgca gaccctaata aacttgtccg gtgtgatata 420
 tgtgaaaatt caccgcgttt cttctactgt gagatag 457

<210> 17311
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B6

<400> 17311

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 cactggaagc tcgggattac gtaggaaagg ggcgggcggc atgaggatcc agtgcgacgc 120
 gtgcgaggcc gcggcgggcca cgggtggtgtg ctgcgccgac gagggcggcg tgtgcgcgcg 180
 ctgcgacgtg gagatccacg ccgccaacaa gctcgccagc aagcaccagc ggctcccgct 240
 cggcgacgcc gcggcgctcc ccgccagcct cccgcgctgc gacgtgtgcc aggagaggcc 300
 ggccttcacg ttctgcgtcg aggacagggc gtcctctgc cggactgcg acgagcccat 360
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 cggcttcagc tccgtctgcg gcgccagcg 449

<210> 17312
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-B9

<400> 17312

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 gtccacaccg acggggggcg ctcaccttc cgcttccccg gcttctactc ctccgcgtcc 180
 tctcgggtcc ttgccaccgt cgcgtcgccg cctcagcaat ccaatgtccc cgatgaggcg 240

ctgaaggttt cgaaccagct gcctcgcata acatcaatag aaggggactg atggggagct 300
caccagtgtg gccctgtttg gcg 323

<210> 17313
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-C10

<400> 17313

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ccggcgagaa gcgaccgacc gcagccagct cacgtctccc ttttcatcca ccatgctgag 120
ggtcgcgggc aggcgcctct cgtccgctct cgctggcgc ccgcgcgcg ccgcctcagg 180
ctcccggggc cctctcgccg gtacactacc cggccgcgac gacgacgaca cacgcgactg 240
cagggcgcggt ttgcgcatcg aatctccctt cttcgccgct gccagagggg tttcagcaga 300
gactcttgct ccaagaaacc aggatgtggg cttatctgag ctcccagcaa ctgtggcagc 360
tgtgaagaat ccaagtggaa aaatcgtgta tgatgagtat aaccatgagc gctaccacc 420
tgagagacccc agcaagcgtg catttgcccta c 451

<210> 17314
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-049-Q1-K1-C11

<400> 17314

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agatagctat agctagcata gcaggccagc cagtcagcga cttagcagca gctagctagc 120
catgctgccg tccttcgtgt cgccgacggc gagcgccgcg gcctcgggtga cgctccgcc 180
gcggccgata ccaggcagct acgggcccacc ggtgctgggc ccgctacggg accggctcga 240
ctacttctgg ttccagagcc aggacgagtt cttccggaag cgcgcgggcg cacaccgcag 300
caccgtgttc cgcaccaaca tcccgccac cttccccttc ttcgtggggc tggaccgcg 360

cgtgggtcgcc atcgtggacg ccgncgactt caccgcgctc ttcgacccgg acctcgtgga 420
 caagcgcgac atcctcatcg ggcctatta ccccgggcg 459

<210> 17315
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-C12

<400> 17315

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 tcaagcgcgg gctaattccgc aggatgatgc tgatggacga accggaagat ggataatctg 120
 aacaatgcca aaacaaaagg ctgatcgta agtgggtcgtc gtctaacaac actaacctag 180
 tgttaccag gttctaactt tgtgctgttg ttgatgggtg taagtgccgg tgggctcggc 240
 cttcttataa gtctaagtaa ctcttctata cttcttattg agaatgttca cttgagctag 300
 catatatttc aaaactataa aataattatt ataagttaaa ggtaatcctt tgaaccactt 360
 ctgtaaccac tccgataaat ctaatgtaaa acttgatgta acttgtaaaa tttggtaaaa 420
 agatttccgc tgcaaaatgt tngtgtgtga 450

<210> 17316
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-C8

<400> 17316

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 cccctcgtt cccaagccca gtggaaacac gttaaatttc aggataacca agctaattgcc 120
 atgaaggaac caggaaccgg tgggtatggc tatgggacga aaaatgacaa gaataaggat 180
 gtggatacaa tagcttcgga cttcatcaag ctgaagcaca aggcttgggc actccagaag 240
 agcacaacca tgtaccaacc ttctacctaa aggtgtcaat agttcaagaa gttgatacta 300
 tatacttatg cttgtctctg tatagtctat aagtcctaata tcaaataaca ggtgctgctt 360
 gcagccttgg atatttgagg atccggagtg aagttaccat ggcacgttg ctaagattaa 420

gaaagtaatg tggttatgag gagatgtgta attttgt

457

<210> 17317

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-C9

<400> 17317

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gatgcattgg cctggcagca gattgagggg gaaagctctg gaaacagtca tgcaacatgt 120
tcattatgaa gatgagaaca ctcggtatat ttgcattggc cctgtaaaca aggtattgaa 180
tatgcttgcg tgctggattg aagatccaaa ctccggaggcc ttcaaacttc atatcccacg 240
agtctatgat tacttgtggc ttgctgaaga tggcatgaag atgcanggtt ataatggcag 300
ccaactttgg gatacagctt tcacagttca agccattgtg gctaccaacc ttattgaaga 360
gtttggctct acccttaaac tagcacacaa ctatatcaag aattcacagg ttcttgatga 420
ctgccttggg gatctgaatg actggtaccg ncaca 455

<210> 17318

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D10

<400> 17318

cccgggtcga cgcacgcgtc cgcggacgcg tgggcttttg taggctatat tgcaagcttt 60
ttcctcacta cagagatctg gtgaggagat tgcgttggtt gagtcgtatg cttcagttaa 120
gtcgaatatg gttttgggtc aacagaaaaa ccaatcaagg aaaagacgtt tttcacgttc 180
tagtgatgat accgacaatt cagatctacc atgtcctcaa tgccgtaatg aatttggtgg 240
atttagatgc agcccaggat ctgtgcactt gcaatgcagt ggatgtggag gaatgatgcc 300
agccagatct aacatcagta taccacaaaa atgcttgggg tgtgataaag cgttttgtgg 360
ggcttattgg tattcgcaag gtgtgagttc aagtcattgc aatctgatct gcaaccagga 420

tactttgaag agtattttatc agcgacatat ctctgc

456

<210> 17319

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D11

<400> 17319

cccggtcgac cgcacgcgtc cgctttgtgc tcccattgtt tatccatgaa ggagaagaag 60
atgtctctat cggagctatg gcagggtgct ataggcttgg gtggaggcac gggctgcttg 120
acgaggttta caaggcccg c gatgttggtg ttaatatgtt cgttctcttt cctaaagtcc 180
ccgatgcatt gaagtctcca acaggagatg aagcgtacaa cgataatggt ctggttccac 240
gtacaatccg cttgctcaag gacaagttcc ctgatattgt tatctacaca gacgtcgcgt 300
tagaccctta ttcattctgat ggcatgatg gtattgtgag ggaagatggt gtaattatga 360
atgatgaaac agtttatcag ttgtgcaaac aggctgtttc acaggctcgt gccggtgctg 420
atgttgtcag ccctagtgc atgatggat 449

<210> 17320

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-D12

<400> 17320

ccgggtcgac gcacgcgtcc ggctcctcct cctcctcccc cccagtcctt cccaggctcc 60
caccctgcct tgctcgcagg ctccccaaaa cgcggagccc tagccctagc cctagctctc 120
ccacacctgc actgggagat ggacggcggc ggcacgcacc gcacgcggga agacgtgttc 180
cgggatttcc gcgcgcggcg ggctggtatg atcaaagcgc tcaccaccga cgtggagaag 240
ttctaccagc agtgtgacct agagaaagag aatctgtgtt tgtatggtct tcccaatgaa 300
acatgggaag tgaacttgcc tgcagaggag gtctctgctg aacttccaaa gccagctct 360
ggaattaatt ctgctcgtga cgggatggat gaaaaagatt ggctgtcact agtcgcggtg 420
cacagtgatg ctnggttgct ggctgtggcc ttttactt 458

<210> 17321
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D3

<400> 17321

tcgactcacg cgctccgaac gaggtgccca agaccgcgga gaacttcgcg gcgctgtgca 60
ctggcgagaa gggcgggggc aagtccgggg agccgctcca ctacaagggc tgcaccttcc 120
accgcgtcat ccccgagttc atgtgccagg gcggcgactt caccgcgggc aacggcaccg 180
gcggcgagtc catctaccgc gagaagttcc ccgacgagaa gttcgtgccc aagcaacaac 240
ggcccccgta tgctctccat ggccaacgcc ggcccaaaca ccaacggctc ccagtccttc 300
atctgcaacc gtgcgaacct cttgtctcga cggcaagcac gtcgtcttcg gccaggctcg 360
cgagggcatg gacgtcgtca aggccatcga gaaggtgggc acccgcaacg gc 412

<210> 17322
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-D9

<400> 17322

cccgggtcga cgcacgcgtc cgggtggggt ggcttctcct cccctccgg ttcgggttcg 60
ggttcgtgag gttctccggg gttcggtttc gtgggtgagc ggatcgagat ggcggcgctc 120
gatgttgagt accgctgctt cgtcggcggc ctcgcctggg ccacggacga ccactccctc 180
cacaacgcct tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag 240
acgcagaggt ccccgggctt cggttcgtc accttctcca cggaggaggc gatgcggaac 300
gccatcgagg gcatgaacgg caaggagctg gacggccgca acatcacctg caacgaggcc 360
cagtcgccg gggccgtgg aggcggcggc ggccgggggt acggtggtgg ccgtggaggc 420
ggcggctacg gcggtggcgg gcgccgtgat ggcggcggc 459

<210> 17323
<211> 460

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-E11

<400> 17323

```

ccccgggtcga cgcacgcgtc cgtctctcgc tccgtccatc cccgtcgcca gcategettc   60
cacttcgggtc tcagcgacgg gcgccaccac cgctcccctc cgtctcccc tctcgcacca  120
gcggaatta ccacagcctc cccagcaagc cgggatggct gcactcaagg catcggtccg  180
gggtgagctc agcgccgctt ccttctcga ctccagcagg ggacctctcg tccagcacia  240
agtggatttt acgtttcaaa ggaagggcaa acgagctatt tctctgagaa ggacatgctg  300
ttctatgcaa caggctccac caccagcatg gcttgnccga gctgttgctg agcctggccg  360
gaggtcatgg gatggcccaa agcctatctc gattgttggt tcaactgggt ccataggaac  420
acagacattg gacattgttg cggagaatcc tgataagttc                               460

```

<210> 17324
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-E12

<400> 17324

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ccgggtcgac gcacgcgtcc gccacgcgt ccccatcag cagctatcgt attgcatcac   60
acagtttggt gagaaggact gcaaacttgc tgacacagtt attaggggtt tacttaaata  120
ttggcctgtg acgaacagtt caaaggaggt gatgttcttg ggtgagttag aggaggtttt  180
agaggcaaca cagcttgcag agttccaaag atgcatgggt cactcttcc gtcagattag  240
ccgtagcatg aacagctttc atttccaggt gccagagcgg gctctgtttc tctggaacaa  300
tgaccatatt gaaaccctaa ttaagcaaaa ctacaagggt ctgttaccga tcatctatcc  360
agcactcgag agaaactcca gagatcactg gaaccaagct gtccgtagcc tgacactgaa  420
cgtacgcaag atcttctcag accatgattc caca                               454

```

<210> 17325
 <211> 304
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-E2

<400> 17325

```

accggtttcg gaattcccg gtcgacgcca cgcgtccgct ggaccgaatc gtcagccgtg   60
cgtgccaggg aacactaacg cgccatgaaa aaactggcag agctcatgct catcctaggt  120
ggagctttgc gcgtgtgcca tgtgttgctg gtgggtgetgc tgccgctgcc tggagtgcac  180
ccataacatc gtccctcccc tcagcagcct tcccttctct cgcttctccg gccagctct  240
cccaggtgga ggtggaggtg gagcagcggc ggcggtgggt gcttctccac ctgtagtctc  300
catg                                                                    304

```

<210> 17326

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-F10

<400> 17326

```

cccgggtcga cgcacgcgtc cgtgcacgat tcgaacggcg gcgaatcgca aaaaattggg   60
agggagaggt cgagtgcgag aggcctcctc ctccggcgcca ccggcaccgc caccgccgcc  120
gccaccacca caaccggcgt ctcgtcggct ataaaaccct accccttcta gtcttcccg  180
cgccaccagc cgctcgttg aaaccctaaa cctctctccc cgttaggtct ccccagcgc  240
cccgacgatg gcggaggacg caccgcctgc agcccctgtg atgacgccgg aggaagtgca  300
ggctgagacc gagctgcgga tgcgcgacat aggccagcgc ttggtgcta tcccagagga  360
ccccgacgag ctgctccggt tactcgaaga agccgaaatc tggttggtcca gggatgatca  420
atctccgccc gagagcatgt acaatgctct tcg                                                                    453

```

<210> 17327

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-F11

<400> 17327

ggcaggactt cccgggtcga cgcacgcgtc cgatcgtact ggaccaatct gccaccacac 60
 tttgatcaca cacaggaagt tgagatcaga gaaatgcagg ctgccgtac tgccgccggg 120
 ttctcggccg tgctgcccgc caagggcagg ccggcggcga ggagcagggt ggtggcccgt 180
 gtccccgcca caaggaggag cgtccgtgta gctgccgtcg tcgcgaccga ggccgcgcag 240
 atcgactaca gctcaagcgt ctccgtgttc ccgatggagg cctgcgacct gcttggtggc 300
 gacgcgtgca acggggcccat gttcccggag gccaaagccc cctcggcggc ggcggcggcg 360
 agcaggagtg tggtcggggg ggacaggagac tacctgtcct acgacgagcc aaagacggtg 420
 ttcccggggc aggcgtgcga tgaccttggc ggcgagttct g 461

<210> 17328
 <211> 470
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-F2
 <400> 17328

accggttcgg aattcccggg ccttggtttt tttttttata tggtttcaat gtgtgtctgt 60
 atgtactgaa ctgtacaggc ttatcgagaa agagcactgc gagtctacaa caatgcacac 120
 ccaacacagg cggcggacac aaccatcca ataatcttct atgagtacag tgcgggagtc 180
 atcggccaat ttcttcaaaa ttatcattaa tttatgatgt tcatgtaact atagtcgtag 240
 gataaggcag ggccgggttg gtttcatcac gcggatggga gcaccttctt gacgatctca 300
 tcaactgagc aggcgatctg ggcgtcgagc gccttaacag cctactcctt ctgcgcctcg 360
 aggttggcga gcgcctctac gagctcggcc tccacacggc tgcgcccctc gtccagcttg 420
 gccttcagct ccgcgggtgg ctcttctctc atcttggtta gcgcgcgcgc 470

<210> 17329
 <211> 242
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-F4
 <400> 17329

cggattcccc ggctgcccac gcgtccggcc atcgacacga tcgcgagcgc agcacgtacg 60

ttgtcgggaag ctcaagttag aagaggcacc agtgccctgat cgatggcggc ccaggctctc 120
ctctccggcc ggcagctgct gggccgcccc gtgcagtcgg ccgtctctag gtcgtcggcc 180
aggaaggcgc ccttcgtcgt cagggccagc ttcaggcctt cagcccagcc aggtgcccac 240
ag 242

<210> 17330
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-F5

<400> 17330

tgtccatggc gtccacgttc gtgctacgta gtgcccatgg tgctgtgcag tgatttttta 60
ccttttcttt atgttggcca tgattctctt gtttagctac aaagtagggc cgtgtatcta 120
cagccagacc tgtgggctgt ttatttttagt tcaacatgtg gatgattccc tactgatgg 180
gggctgttgt tgtttgtaat atgtgctatt gaatagcctt ttattttatg aactggccaa 240
tggcctttgt ggttc 255

<210> 17331
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-F9

<400> 17331

cccgggtcga cgcacgcgtc cgcactcacc gatctacaca catacatagt ttctttctact 60
acacgacgac aaacatgggg gggcctgcga agatcggaga gtgggggtgga tacgccggcg 120
atcgtcggga tctgagggct actccggacc ggctgatcga ggtgaaggct acggcggaca 180
acagcagctg catccgctcc atctccttca tctacatcgg agccgatggc aaaccgtacg 240
aggagggggc atgggggttc ggccatgctg gcacggagta caagattgat ctgtgcaggt 300
tcgacgagag cttgacggag atctccggga ccacgggccc agcctacaac attgacaatc 360
tgggtcaagtc tctcaaattc gtcaccaaca aacgcgctta cggaccgtac ggcagggacg 420
agggcacccc gttccgtgtc aaggtgatga acaac 455

<210> 17332
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-G10

<400> 17332

```

cccgggtcga cgcacgcgtc cggccgcggc gcgtcgcgac ccgggccgac aagatagggt    60
cggaagccc cgccgccgac ggcgtcggcg acgccgcgcg caagcggccc agcggcgatg   120
ttggccccac cccggggcca gccgacaagc gccgcgcgcc ggagcaccct tcttctctct   180
ccgcggggtc ccgcgaccgc caccaccacc accacggccg ccgcccgcgc tcctcggccg   240
acgagaaggt gcgcgcctct cacatcctga tcaagcacga gggctcccgc cgcaaggcct   300
cgtggcgagg tcccgaaggc gtcgccatct ccgccacgac acgcgacgac gcggccgacc   360
tcgcgcgcgc gtcgcgcgac cagatcgtct ncggtgaccg cgagttcgag gacgtcgtct   420
ccgagaactc                                     430
  
```

<210> 17333
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-G11

<400> 17333

```

cccgggtcga cgcacgcgtc cggccgatga tcttcgagac cctctccgat tagaactcgg    60
cgaaaaaacac cgtcccctgg ggcctcatca tcgcgctgcc gcacgccgcg caccatcgat   120
tttgtccaca acccgaaggc ctacaacaag ccctgccgcc cctagatctc ttcttactac   180
tccgcgggct ccgaccacag ccaccatcag caccacggtc gccaacccgc gttgccacgg   240
cgccacaaac tgcac                                     255
  
```

<210> 17334
 <211> 395
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-G12

<400> 17334

ccgggtcgac gcacgcgtcc ggaggatgat actggccgtg ctcttcgcca actccgatgg 60
aaacatcctt gtcgagcgag tccatggggg tcccgcggag gagaggctcc actggcgctc 120
cttcctgggtg aagctcgggt ccgagaacct caaaggggtcc aagaacgagg agtccacgt 180
tgcctccac aagtctgtgt ctattgttta taccacggtc ggggatgtct gcctctacat 240
tgttggaag gatgaatatg atgagcttgc tttggctgag gtgatctttg caattacatc 300
agcagtcaag gatgtttgtg cgaaacctnc taccgagcgc ctcttccttg aaaaatacgg 360
gaggatctgc ttgtgccttg atgagattgg ttgga 395

<210> 17335

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-049-Q1-K1-G2

<400> 17335

accggttcgg gaattcccg gtgcgagcca cgccgtccgg cgtnngtgtt tcgtagtttc 60
tgcccttgat agtctgcgtt tacgttgctt ctctctcacc tttgagttta ttactgttat 120
gacaaggnga catgcatacc caattcattc ccgaagatgg gtgaccaggt tggattcctg 180
aagatgtatt tagtatggag ccttcggtt gcaacttttt tgagaacaca tctacagtac 240
agctcaatca tcgaattctt gccgcaacaa cattactctc tgtgggtgga ttatggttgg 300
ctgcaaggaa aatagacatg caccagcag tcaagtcact gatcggaagc ac 352

<210> 17336

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-G5

<400> 17336

gtcgacgcac ggcgtcgctt tcattcgccg ccgcgcctc ctctctgctg ccgtcgccat 60
ggggagaagg cctgcgagat gctatcgccg gatcaagaac aagccatacc ccaagtccag 120

gtactgccgt ggtgtccctg accccaagat taggatctac gatggtggca tgaagagaaa 180
 ggggtgtgat gagttccctt actgtgtgca ccttgtctct tgggagaagg agaattgtctc 240
 cagtgaggct cttgaggctg cccgtattgc ctgcaacaag tacatgacca agtctgcagg 300
 aaaggatgcc ttccaccttc ggg 323

<210> 17337
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-049-Q1-K1-G6

<400> 17337

cgacctacgc gtccggcgct ttgcaacgcc tccgctgcaa tcagcccccg cggcgagatt 60
 gccctgcccc tgagtgctag ttctcgccgg tacgtaaggc ttcttggcct tgcgtcctcc 120
 gtctttcggt gctgatacat cgaggatta aagaagctgc ctgggtccgg gcagcagagg 180
 tcgcccgcga ctgcagcaat ggccgacttc tcctggetca cgggtgcttg cttcctattc 240
 ctcaccttca actcatgcat ggcgatntat cgggtccaacg gtgacgcccg ctccgtcgct 300
 ttcgtcgtgg tatcttatct cgacctngtg cccctgtcg cctgcttgcg ctactacgag 360
 cagttggatc agcagcactc cc 382

<210> 17338
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-G9

<400> 17338

gacggacatg atcacctacg ccgacaccga cgtcgtcatc gtgggcgccc gctccgcggg 60
 gctgtcctgc gcgtacgagc tctccaagga ccccgccgtg agcatcgcca tcgtggagca 120
 gtcggtgtcg ccgggcggcg gcgcgtggct gggcgggcag ctgttctcgg ccatggtggt 180
 gcgcaagccg gcgcacctgt tcctggacga gctgggcgtg gcgtacgacg aggccgagga 240
 ctacgtggtc atcaagcacg ccgcgctctt cacgtccacg gtcattgagc tgctcctggc 300

gcgccccaac gtgaagctgt tcaacgccgt ggccgtggag gacctcatcg tcaggggagg 360
 gcgcgtcggc ggcgtcgtca ccaactgggc gctcgtgtcc atgaaccacg acacgcagtc 420
 ctgcatggac ccca 434

<210> 17339
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-H11
 <400> 17339

cccgggtcga cgcacgcgtc cggatccttg gacacctgcg cgccgccagc ccgtcaccgc 60
 ttggagaccc gcgcagccgc gttccctgac gcgcgccag ccgtcgccga tccgtggccg 120
 cgtccgccgc cgccagccct aaggtcgcgc cgtcagccag cccgtctgcc gtcgtgaggt 180
 actgaggaat ttttctggta atcagcatgg cactgtcatc aatgtttaag agaataaatg 240
 tgaaagattt gacctccaag gtttcagtct ataccagtgc tacaggcgct gggccacgaa 300
 aaggactgct ggatcaacaa aaaatggtcg cgattccaat ccaaagtatt tgggggtaaa 360
 gaagtttggt ggagagaaa tactaccagg gaacatcatt gtccgcaaaa gagggacccg 420
 ctccatcct ggaaactatg ttggcatggg caaggatca 459

<210> 17340
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-049-Q1-K1-H12
 <400> 17340

cccgggtcga cgcacgcgtc cgcggacgcg tgggcgacgt gcggcgtgcg gtgcatcctg 60
 acggacgagg aggcggcgct ggtcggggga cggaaccaca gccacgcgac gcaggacctg 120
 tacgactcca tcgcggcggg gagcttcccg gagtggacgc tgtacgtgca ggtgatggac 180
 ccggacacgg aggagcagta cgacttcgac ccgctggacg acaccaagac gtggccggag 240
 gacctgctgc cgctccgcc cgtggggagg ctggtgctgg acaggaacgt ggacaacttc 300
 ttcaacgaga acgagcagct ggcgttcggg ccgggggctgg tggtgccagg gatctactac 360

tcggacgaca agatgctgca gtgccgggtg ttgcgctacg ccgacacgca gcgctacagg 420
ctgggaccaa act 433

<210> 17341
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-049-Q1-K1-H4

<400> 17341

aattcccggg tcgacgcacg cgtccgggga gaaggatcct actccaatac ttgacacaat 60
tgatgcggcc attcatttga aaaagctatc tagtaaggag ctcaagcagt tagccgatga 120
agttcgttca gaaatagctt tcataatgtc cagaaaatgc caaccgtgtg gtgctgatcg 180
ctcagttgtg gagctgacaa ttgctataca ttatgtgttc aatgccccaa tggataagat 240
actatgggat gctgggtcaac atgcatatgc gcacaagatt ctacacaggaa ggcgctctct 300
cttccatact attacacaga aaaatggcct ttctgggttc acgtcgcggt ttgagagcga 360
gtatgatccc tttggtgctg gacatggatg caatagtcta tccgctggcc ttgggatggc 420
ggttgcaagg gatataaatg ggagaaaaaa tcgaatagtg aca 463

<210> 17342
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-A2

<400> 17342

accggctcgg aattcccgac tcgacgccac gcgtccgcag ttgagcagct atttaatgga 60
gggataagag ggaggatttc 80

<210> 17343
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3060-050-Q1-K1-B10

<400> 17343

tactcgggttc tcggaattcc cgggtgctac ccacgcgttc cgcgacaaca agcctcctgg 60
 gtcgtcatcc tgctgcggtg ggcgtcgcca aggacgctct tcacgcggg tggccgacgt 120
 tcctgtctgg accgcgccgg gtcgtcggct ctctgcttgc tgaccagcta cgggttggaa 180
 tgatntgtct cgctcgtcgt gtctcgtggt cgtgtcctca ctcgtcttgg gtgcacc 237

<210> 17344

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B2

<400> 17344

accggtttcg gaattcccg cttggacgcca cgcgtccgga agacactatt ctgtcactca 60
 gatgctacct attcagggtta cacgtgctac actgggattt tttatattgt gccgcctgat 120
 atcgatacgg ttgggtaccg ggtatttctg ggccacaaac agtacttcgt ctcttcggat 180
 gtcggtgccg gtaaaatgca atggtattct ttttacaagg aagaggctgg tggcactgac 240
 cttgagaacg gcttatagaa aatgtttgct tgagttattt gatgggtggg gtgttaattt 300
 cattttattt ttttatgtca tcttattttt ttcttttttt tttttttatt ttttttcttt 360
 ttttctttta ttaatttatt tttttttatg tttttttttt tatttctttt atttatcttt 420
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<210> 17345

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-B4

<400> 17345

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 ccaactccgt gcgctcgccg gateccctgc tcggtttcta ctgccgttcc ccgtgctcgc 180
 gttatctccc tctctctgc cgcctctcgc tgagtccctc tggttctctcc catggcacgg 240
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gttcattctt ttatctttcc ttatatgtg tttttgctct ctttttcatt tatatttttt 360
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<210> 17346
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-D10
 <400> 17346

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 tgtgtagggg tgtctccaga aagcttgctt gttacttata tcccacacac ttgcgcgcac 120
 gcaaccgggc ctttgccct ctcttgctc tcaactgctgc tgcccctgcg tattcttctc 180
 tgatcgattt ctgtcatggc ttcattctgg ttcagctgcc gctgtagctg tatgacccat 240
 gtttgccgca gatgacccat gtgggactat tccggggcct tctttcccat atttagttgt 300
 tgtttgttta gtttgttttt tttttgtctt ttttttattt tattcttttt ttttattgat 360
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<210> 17347
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-050-Q1-K1-D11
 <400> 17347

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 ttcatatatt atatattatt tttcttctat ttttataatt ttatttatcc tatatttttt 360
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<210> 17348
 <211> 468
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-D4

<400> 17348

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gttcttctaa ttgatagtga actgtacaat cgctctgatt ttatcactga gtacaaggat 180
gccaaattct ttgtaataaa gtcctacacc gaggaccatg tacataggag cattaagtat 240
aatgtttggg ctagcacagc cagcggaaac aggaagctgg attctgctta ccgtgcggcc 300
agagagaaaag aagagcattg ccctattttc ttgttttttt cggttaatgt aagtggccaa 360
ttttgttgct tttttttata tttattgttt ttgtttattt ttttttgatt tttttatatt 420
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<210> 17349
 <211> 193
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3060-050-Q1-K1-D9

<400> 17349

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ctgggccacg gacgaccact ccctccacaa cgccttcagc acctactgcg aggtcctega 180
gtccaagatc atc 193
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<210> 17350
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-E9

<400> 17350

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atgatgttta ctatgggtcaa atttttttta tctattatat actgtgttta ttttctattt 180
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tttatttttt tatttttttt ttttttctta tttctttttt tttttatttt taatttacta 300
tattatttta atattttttt ttttcttttg atttatcttt tttttttttt ttttatttat 360
tttttctttt tttttttttt ttttcttttt atttttattt tattttattt ttctttattt 420
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<210> 17351

<211> 255

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-050-Q1-K1-F10

<400> 17351

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accttcgtct cgtcttctat aaatccctac ccttcttagt cttcccttct ccaccttcct 180
ccttgtttaa acccttatcc tctcttcccg ttaggtctcc cccatctccc cttctatttc 240
ttatgactct ccttc 255

<210> 17352

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-F3

<400> 17352

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ggcttctccg acacgggcc 79

<210> 17353
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-F9

<400> 17353

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cgacacgggc cgcggcttct acaaggtgta ctgtgacgtc ttctacaagg tattcgcgca 120

ggagcttgcc tatgctcgcc ggatgggg 148

<210> 17354
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-G10

<400> 17354

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gcgctggagc tcctcgcggg ctgctatcgc gcgccgcaac gccaccatga agttcaacat 120

cgcgaaccct tccaccgggt gccaaaagaa gctggaaatc gatgacgacc agaattctgcg 180

tgccttttat gaccgaaaga tatcccagga ggtcagtggg gatgctctgg gt 232

<210> 17355
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-G2

<400> 17355

accgggtccgg aattcccgcac tgcgaccac tcgtccgcaa atagtgaggt ttttcttctg 60

ga 62

<210> 17356
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-G8

<400> 17356

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ctgctctcgg cttcttctac acgctaccgt cgcacagccg taaacgcccc tgccggatcc 120
cgctagtctg ccaccgccgc ccgccccccc gccgttcgcc tcatcatggc cgcctcgtcg 180
accgccacct ccgtccaaga cttcatcgtc aaggatgcga gcggcaaaga cggtgacctc 240
agcacctaca aggggaaggt tcttctcatt gttaacgtct catcctcatt gtggcttaac 300
taacttcaac tacactgatc tggcctatct ctactagtag tacatggacc aatgcttt 358

<210> 17357

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-050-Q1-K1-H5

<400> 17357

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ggaggtgcaa gggaaggctg tccaagaaga agtgcattgt tttcaataat acttgtttct 180
ttttccctttt tattttatttt ttattattat ttatatattcc tattttatttt ttttaattttt 240
tttttaatttt tttttctttt ttattttttt tttttttatt tttttttttt tttttattttt 300
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<210> 17358

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-A11

<400> 17358

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ggacgacggc gagatggcaa gcggggaaga aggcaagggc gagacggtgc tggtcaccgg 120
ggccagcggc ttcacggtt cgaccctcgt ccgcggcctc ctcgcccgcg gctacaacgt 180
ccgcgcgggc gtctctgacc ccgacgacag ggcggagacg gaccacctcc tcgcgctcgc 240

cgccggcgcc ggccgcctca gcttcttccg ctgcgacctc ctggacagcg ccgcgctgct 300
 cgacgcggca aggggggtgct cgggcgtctt ccacctcgcg tcacctgca ccgtcgaccc 360
 cgtcaaggac cccagaatc agctgatggt gcctgcggtg gaagggacgc tgaacgtggt 420
 gcgcgcg 427

<210> 17359
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-A7
 <400> 17359

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 ggagtgggcg gccgtccccg gcgggcaggc cacgtacctg ggcgccccg tgccgtgggg 120
 cacgctgccg accatcctgg tgatcgagtt cgtggccatc gccttcgccg agcaccagcg 180
 caccatggag aaggaccccc agaagaagaa gtaccccggc ggcgccctcg acccgctcgg 240
 cttctccaag gaccccgcca agttcgagga gtacaagctc aaggagatca agaacggccg 300
 cctcgccatg ctggccttcg tcggcttctg cgtccagcag tcggcgtagc ccggcaccgg 360
 cccgctggag aacctcgct tccacctcgc cgacctgtg cacaacaaca tcggcgaca 419

<210> 17360
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-A9
 <400> 17360

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 aacagaaaag tactggaaag gatggtatga aggtctttca gacaagttcc tatcttgccc 120
 agtgcaaaag atcctgttgt tagctggtac cgacagactg gacagagctt taacaatcgg 180
 tcaaatgcaa ggaaaatttc aaatggtggt gattcggcac actggacatg ctatacagga 240
 agatgtacct gaagaatttg catcgacat actgaagttc atatcccgca acaaaatagg 300
 gcctaattgt gtcgagatac ctgggctcat taaaaaatgg caacagtaga cataatgtac 360

aaggtaccga tctggaaaat gttcaggaaa atgatgagt

399

<210> 17361

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B1

<400> 17361

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tcttcagatg atatcaacaa gttcttatgg atggtacgta ttggtggagg gggtttccct 180
gtaatcaaag agccagatta ccttgtaaac ggggaatatc gtattgacaa gggggcagca 240
ccaaaaatgc tgaactgcct aatgtacaag ctttgttact accgatttgg agaacttacc 300
acagaatatg gaaaacctcc agggtatgac cgtgtactag gagtggagat tggcaacaaa 360
gatataaagc ttgaatactt ggaggaggca tttacaactt caaactggat agtgcgcata 420
tacaaggtga aacccccaaa agac 444

<210> 17362

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B3

<400> 17362

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gatcatgcga cgtcagggcg gttctatagg gtcacctaga ggcaatt 107

<210> 17363

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-B4

<400> 17363

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tctacaaccc aaatggaagc caagcctttc gtggttcaaa aacgccgaat ctctgtctgaa 120
 tcatcatttg tcaggacttt tcggagtaag ttctttggct tggacaggac atttagttca 180
 tgttgctatt cccggatcca ggggggagta cgttcgatgg aataatttct tagatgtatt 240
 accctatccc caggggttgg gtcccccttct gacgggtcag tggaatcttt atgccccaaa 300
 tcctgattcg agtaatcatt tatttggtag cactcaagga gcgggaactg ccattctgac 360
 ccttcttggg ggattccatc cacaaacaca aagtttgtgg ctgaccgata ttgctcatca 420
 tcatttag 428

<210> 17364
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-051-Q1-K1-D12
 <400> 17364

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 ctttgggccg gaaccaagca gaaggcctgt ggtgatgatg gccttgggac ataacttcca 180
 gggcaggaag aaggcccaga agacgaactc aaaggttcaa gaattcacct tgcaatgtgg 240
 gactttggtc agtgtgatgt taaaagatgc actggtcgta aactttcaag atttgggctt 300
 ttgaaggagt tgagagtgac catnggttct gcgtggtggt gttctcagcc ctgttggaac 360
 acagtgtgta tccaaggaag atcatcctat tgtgcaaaga aaaggattgg ctgtggttga 420
 ttgttctctg gcacgtttta gtgat 445

<210> 17365
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-051-Q1-K1-E12
 <400> 17365

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tggaaggca catcgagccc ggagagttga cagcgcgggc acaggcatga gagccggatc 120
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 tctggcaccc gctgcacata gctttgtaca gtcctttgta gaagcagtct gggctttgct 240
 ttggaggtga ccgtgcgctg gtcctttgct ccaagaattc ctttagtctg tagattgttt 300
 atcttcttaa gctgattggg aatctaacca gtgaaatcgt tgttcgcaac attcctagag 360
 gcaagcaggt tatgagctat ggtactggac atgcaaata agcaccaaaa atacccatca 420
 tcattctc 427

<210> 17366
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-E7

<400> 17366

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 cagatcagtg agagcttatg cgaagggaga cgaggagggc gacaagcagt ccctcttcgg 180
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 acttaggcgg aagattggtg gcacctacca ggatttcttc aagtcatatg ttgaagtcga 360
 cgggcaatac gtggaggagg gttgggtcga caagacctgc aagatctgca agaaggacac 420
 aaggggggag ccgaggcagg ttgacaagct 450

<210> 17367
 <211> 210
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F1

<400> 17367

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gcttattcga agggatacta agacggctac aagcagtcctc tcttcagaag catcaccgag 180
gcgctatact tctcataggt ccggtcggag 210

<210> 17368
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F10

<400> 17368

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tgtactgacc tgtacaagct tatctggcca gaatactggc tgcctacatc atgcacaccc 120
atcacaggcc gtggccacaa cccatccaat aatctctcat gactacagtg tctgaagcat 180
catccaatat cttcagaaat atcatgaata gatgatgttc atgtaactat agtcatagga 240
caaggcaagg cctgtttggt tgcatacagc agatggaagc accttcttga cgatctcatc 300
actgagcgag gcgatctgag cgtagagcgc cttgacagac tctacttct gcgcctcgac 360
gttggtctagc gcctatacga gc 382

<210> 17369
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F11

<400> 17369

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taacttaaatt taaattaat 79

<210> 17370
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F3

<400> 17370

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caagtacggg cacaacgggt tacgtttcct ccgcgcgggc gccgtgcca ccctgatcgt 360
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gccgtggtcc atggcctatc acattctccg ctacaacacc t 461

<210> 17371
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-F8

<400> 17371

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ccacagtagt cgacaccgtg ggcgagtacc tcccatggcc gctgggtatcg tggcctgtgg 120
tgagccggat gttacgatgg ggtagggga tggacactag cctgaacgag gaggcgatg 179

<210> 17372
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G1

<400> 17372

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aagaacatgc cttcctttcc tgcttgctgc taatgtgctg ggatacatgg ttggttctgg 180
gttaccacct ggcgtaaga aagtgtgta tccgatcatc tctgcgcac tctgtgcaga 240
tttcgcggcg ctagectatg ggtacatctc agggtttggc cttgatgccg tgctaggtgc 300
ttacctcaca aaggtgccct ctaatcctgg agccggtgac gtactaatga ctttccttgg 360
gtctgtgatc atatcatttg cattctcgat cttcaagcag agaaagcttg tgaagaggca 420

cgcaacagag attttcacat caattgccat cgcgtcgaca

460

<210> 17373

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-G2

<400> 17373

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cactgccaat ggcttactac cagcagtggt actactgttc tgaggaggcg aagtcggagg 120

tcacagacgg ttatggacct cacggaagca gtgtacagaa gtacgtactc aatgagaaat 180

tcacagaggt cgacactgcc tgacgcgcgg gggtcgacca ccaccacctc taccatggtc 240

aacacgacag tcacgggttc atacagcgcg agaacacggt cgttgaggac a 291

<210> 17374

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-051-Q1-K1-H1

<400> 17374

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actactgttc ggaggaggtg aggtcggcgg ccccgacgg cttgcgccgc cacgtcggtg 180

gcattcagca tcacatgcgc aaggagaaga tccaggaggt cgacactgtc ggacgctgcc 240

tcgccaacca ccagcaacaa catggtcacc acagcagcca ctgctttgtg gctcgcgaga 300

ctcactgtga ggaggacatc atcacctgca ccggccaggt ccacgatcgc acggagagct 360

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<211> 278

<212> DNA

<213> Zea mays

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<400> 17375

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tttgaatttg acatttgatg aacctgtat aaaaaccgac ttttctatat tccaaacgaa 180
catcctaatac agatagaccc atccttctcg ccaaaaaaaaa aacaaaacat aaaaataaga 240
aaaaaaaaaa aaaaaaaaca aaaaaaaaaa acaaagac 278

<210> 17376

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-A4

<400> 17376

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cccctggatc tcgacctccg nctggctgct ccgctctgcg tcgctcgcca tggcgctcctc 120
gacggggagc ttggagcacg gcgggttcac gttcacgcgc ncgnccttca tcacctcggt 180
cacggagctg ctctctgggg cagcagcgga catggtagga gccgcggggc cggatcatca 240
ggagcgggtc cggagggggc tgttccaccg cggcgccacc aggggcgggc gcgtatgcgt 300
gcccaagttc aagtccgcgc a 321

<210> 17377

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3060-052-Q1-K1-A5

<400> 17377

cggaattccc gggtcgaccc acgcgtgcgg agagatctcg atccgcacac cttacgcctc 60
tcttcctctc gcccgaagga caacgaaaac atcaaacaag agaaccaaag gaaacagagc 120
aagagcatcg ctctcgaagc aaaacgcgca ccacgccgtc gccggccggc cacttcgcac 180

gtacgtagga cgcgcacgca ccggtgcata tatggggctc ctgaaccagc tgtgggacga 240
cacggtggcc gggccgcgcc cggactccgg cctcggcaag ctccgcaagt acgctnctt 300
ctccccctcg tcgtcgctgt cggcggcggt ggcggcgggc gcggcgggcg gctccgcgcc 360
gnctncgggc gccgtgacgc ggagctggac catgctgcgg cggcccgcgg cgctgtccgt 420
cgtcacg 427

<210> 17378
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-A7

<400> 17378

ccggtccgga attcccgggc cgagtgcgaa ccaagcagac cacagcaaga agcgtagtct 60
tttccggaag gaaaggcgcg gagcaagatg tcgtggcagg cgtacgtcga tgagcacctg 120
atgtgcgaga tcgaaagaca aca 143

<210> 17379
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-B11

<400> 17379

accggtctcg gaattcccgg gccgaccac gcgtgcggca cctcttattc cttectctct 60
ccgagtcct cagccgaggt ggcgaggacc ctccctgtac atcgtctcct ccatgtcgac 120
atcttccctc atctctccaa cgtcgtccag ccattgagca gtcacatcgga gcagcaacgc 180
tcgacactga gtagccacac gtggagtcac ctcatcagcg tetgctcgct cctcgtccgt 240
tcgtcgagct cggcaagccc ctctcagcc gtgccgagtc tccaagccgg ctgtcgacgc 300
tcgcctttgt ttctgtgtta ctggtatcca ttcttgctcg ccaatcgagc accccacca 360
ccgttccagt tccgattccg ctagttgtcg ttgcctcgc catcgtctct tgggaaagat 420
tataatgtct ttggcttaat tagttacttc atgtggaggt cttgaagctt agatta 476

<210> 17380

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-B9

 <400> 17380

 ggaattcccg ggctatagca accggtccaa cactttcacg ctcaggcgct cagctctagc 60
 aatggctgcc tccaccatgg cgatctcctc cacggcgatg gccggtaccc ccatcaaggt 120
 gggctccttc ggcgagggcc gcatcaccat gcgcaagacc gtgggcaagc ccaaggtggc 180
 ggcgtccggc agcccctggt acggccccga ccgcgtcaag tacctcggcc ctttctccgg 240
 cgagcccccg agctacctca ccggcgagtt ccccgggcag tacggctggg acaccgtcgg 300
 gctgtccgcc gaccccgaga ctttcgcaa gaaccgcgag ctggaggtga tccactcccg 360
 ctgggccatg ctgggcgcgc tcggctgcgt cttccccgag ctgctctccc gcaacggcgt 420
 caagttcggc g 431

<210> 17381
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3060-052-Q1-K1-C7

 <400> 17381

 caaggaagct agaagcgcgc gctttattgc catgagcgca tcacaccaga ctagtatttt 60
 aaaaaactct gccacacggc ggaacagagc gcccgatoga tcgggcccgc ggagacgacg 120
 accacaacat catcacgact accacgctgc tagtacttgc aactcctact gctactaccg 180
 gctagtataa tacacggagg cgcgcgcggg gggaccagga cggccgccgt taatcaggcg 240
 ctggcettgt tgaccttctt gccggcaccg gaagcggcgg cgcgggctgg cttgggcttg 300
 ggctgcncgg gccgcggggg c 321

<210> 17382
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3060-052-Q1-K1-C8

<400> 17382

aattcccggc tcaacctacg cgtccgactg aaçtatggc tgcagcgctt gctttcgcct 60
tattctcccg gcccgccggg ccggggtcac aagcgcaagc agtgaacacg ggcctcctc 120
gctcgcgcgg ccacgcccc gtcgtcgtct tctcccggca ggtactacag cgcataaata 180
cgcagcaccg ccgcccggct cggatcccgt ctggccaccc atccgatccc acccggcagc 240
ggcgctgcgc aatggccacc cacgcagctc tcgccgcctt ccgcatcccc gccggcgccc 300
ggctgcacag cagggcgccg gcgtcgtcca ggcacggcgt gcagaggctg gac 353

<210> 17383

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E10

<400> 17383

cggaattccc ggggcttcag catcctatgg tgaacttgca gctgcaggga tggaaagagc 60
ttcacataca acagtagtat caacattgct atagcagtgg ccatagatgg tgggttgatt 120
acatcggttc ttcactggtg ggctaggggt tatctagaga tgacaaggcc ctcaagttgg 180
ctttccagca ctggatcgaa gcgatgagta caaacgggca gtggggattg actccaactg 240
acaaagttaa aagcaaagat gaagcttcac cttaaagaga caggtgacga ctctttcagt 300
tcatggaatc agcatggcac aaagaagttt tcggcctgtc attgtcaata tcattttgag 360
accagcttc ttcagatgct atcaatgagc taagatcagc aactgcacat gccttacct 420
cagcaactcc aggagatacc gcactctctt ctg 453

<210> 17384

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-E3

<400> 17384

ctaattgtat acgttacttt tctactcacg ctctgaactt tgcatttaag ggctagttca 60
atacgttctt cagctccaag aaggacttgg atggctatag caagcggctc gctggcaacc 120

tggcctatgg tcggagctgc tcggtgctct ctctctgctt gttgcatact ccctggacta 180
 cccaagagca cagttggcta atgacgcaaa ggctgctcat ggatgaacgt gaaaggcaag 240
 ccaatggact tgtcgatgtc taccgcacga cactcaagtc tgatagtctt gctgggctct 300
 accacggatt taacatcttc tgcgttggca tcattggcta tcgtggctctg tactttgg 358

<210> 17385
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F1

<400> 17385

cggctcgacc cacgcgtacg acagcattca tatcccggga gctctctctt tctcgcacct 60
 aactctgcct tcaagggcga ccctacctca ccagctgcat aaccgaaggc cagataccgc 120
 tctcgccagc cacctgctgg caaagtcgcc tacataaacc actaatcgac cacttctctg 180
 accaaaccac acaccctgga ataccaata gcatgcaagc ttcattacgc caaggctgaa 240
 cactactacg tgaaaggcac ctgaatgggc ttgcctatgt ctaccgcaag aactcaaag 300
 ctcaccgtat ctgcgggctt taccgtcgat ttaacatctg ctgtgttcga atcattgggt 360
 atcgc 365

<210> 17386
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F10

<400> 17386

agggggggga gatgggaaat gttctaccgg tccggaattc caggcacgcc tacgacceta 60
 gctctatagc tcgaggattg cttgctctcc acaagaaaca aggcagagca ccaacaatgg 120
 ccgcgccta ctgctcctcg gtctctctgc tgctcctggc cgcgccttg gctggcatga 180
 gcgccaacgc cgacaccttc accatcacca acaactgcgg gttcaccgtg tggcccgcgg 240
 acaccccggg gggcggtggc acgcagctga acccggtcgg gacgtggacc gtcaacgtgc 300
 cggctggcac cagctccggc cgcgtgtggg gccgcaccgg ctgctccttc aacggcaaca 360

gcgggagctg ccagacaggc gactgcggcg gcgcgctggc ctgcacgctg tcggggcagc 420
cgccgctgac gctggccgag ttcaccatcg g 451

<210> 17387
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-F6

<400> 17387

aattcccggc tcgaccacg cgtgcggggc aaaagccaaa aggcattttc gtcgcgacga 60
cgatggcagc ctcgctcgaa gcggcggcca ccctgatgca gccggccaag atcggcggcc 120
gggcgcctt tgctcgtcgc ccgtcccgcc cgtcgtcgca actcgcctgc agggcggttcg 180
gcgtcgacgc cggcgccgcc aggatcacgt gtcacctgca ggacgtcgcc agcaggtgcg 240
tcgacgccgc gaagctcgcc ggcttcgcgc tcgccacctc ggcgctcctc gtctcgggcg 300
cgagcgcgga gggcacgccc aagaggctga cctacgacga gatccatagc aaaacgtaca 360
tggaggtgaa gggcacgggc ac 382

<210> 17388
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-G10

<400> 17388

cgggtcgacc cacgcgtacg gctcgctcgc ggtcaaacc taagcaggta gttgatttat 60
ccgctgcagc catgagtaag ttgcagtctg agtctgtcaa ggatgccatc tcccagattg 120
ttgggggatgc caaggagaag aataggaagt tcaactgagac tgtggaactt cagattggtc 180
tgaagaatta tgatccacag aaggacaagc gtttcagtgg ctctgttaag ttgccccata 240
tcctcgtcc caagatgaag gtgtgcatgc ttggtgatgc ccagcatgtt gaggaggccg 300
agaagatggg acttgactac atggatgttg aggtctctaa gaaaatgaac aagaacaaga 360
agcttgtaa gaggcttgcc aagaagtacc atgctttctt g 401

<210> 17389
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-H5

<400> 17389

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atatccaatt ttgtacacca ctacacaaat ctaggacttc cagttcaaga atacttcgga 120
tgatactttg cctgcaacat atgtgtgtac gtgcagggtt tccatctaga gatcaagtgt 180
tctagctata tgtacaagac catgttcac tccgacctcg accaagctac tacttctttc 240
gttttgtttt agttgtcgct ggatagtgca aaattgaact atccagcaac aactaaaaag 300
aaacgaagaa acggagggag tacttccgat ccaaagacga agagcttgta gaagtggagc 360
tgaacgagct aagctaagct accaattaaa gaataggcag cgcgggcccg gcatgcagat 420
gcaggtgttg tgggtgttggc gccacactac tgcacgcgcg 460

<210> 17390
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-052-Q1-K1-H8

<400> 17390

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gctgtcactc gaatgggttg actggtgagg tgatccttgg gaagcaggcg ttttccccac 120
cgatcattag tggatgatctg ggaactttca tggcctgcat ggatgatgtt cgaatgctca 180
aggtcctggc taacgccgat accacgtgat gatgcattga ctgctcgaaa cactggggca 240
caaggaattg gattatgccg gacagagcac atgttcaccg cttcatacga gaggatttag 300
gctgctaggg ctatgattat ggctccca 328

<210> 17391
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A1

<400> 17391

aagatggaag gcgatcggcc acctatgtac acggacggat acgccaatta ggtgcggacg 60
tgcgaggtg cggtatcctg tatcggatac ttaacagata gggatacccc atgatacgta 120
cgaataaaaa aagaaaaaaa aaaaaaaaaa agaaaaagaa g 161

<210> 17392

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A10

<400> 17392

tgacggttgc tctagatccg ttcattcctgg tggttctgtg aggccgaaag cggcgagcga 60
attataagat gctggacaag ctgtgggacg acgtggtggc cgggcctcgc ccggagacgg 120
gcctcgagaa gctccgcaag gccaccaccg cccgtgcgct cgatcatcaac aaagacgcgg 180
acggcggcag ctacaagcgg gcgcagtcga tgccgtagac cccgacgacg ccggtgacgc 240
cgctcgctgc ctgcctgcgc acgacgccgc gcggggccgt gaacgtgtgg cgcaacgtcc 300
tacagccggg gagcaacctg gccaacgagg g 331

<210> 17393

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A3

<400> 17393

ccggtccgga attcctgggc cctctcgctc cagccgcttc acagcgccgc cgctcgcttc 60
tccgaccgcc gcgagaatgc cgttcaagag gtctgtggag atcgggcgcg tggccctggg 120
gaactacggc aaagactatg gccgcctcgt cgatcatcgc gatgtggtcg accagaacag 180
ggcacttgtg gacgcccctg atatggtcag gtgccagatt aacttcaaac ggctctcact 240
tactgacatc aagattgaca tcaaacgcgt tcccaagaag tcaaccctga tcaaggctat 300
ggaggaagct gatgtgaaga cgaagtggga aaacagctca tggggcatga agctgattgt 360
ccagaagagg agggctgcgc tcagtgactt tgacaggttc aaggatcatgc tggcaaggat 420

caagaagggg ggtgc

435

<210> 17394

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-A9

<400> 17394

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attagaagat gctggacaag ctgtgggacg acgtggtggc cgggcctcgc ccggagacgg 120
gcctcgagaa gctccgcaag gccaccacct gccgtccggc cgatcatcaac aaagacgcgg 180
acggcggcag ctacaagcgg gcgcagtcga tgccgtcgac cccgacgacg ccggtgacgc 240
cgtcgtcgtc gtccctcgtc acgacgccgc gcggcgccgg caacgtgtgg cgcaacgtct 300
tccaaccggg gagcaacctg gccaacaagg gcatggggccc caaccttt 348

<210> 17395

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D10

<400> 17395

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gataccgagg agtgacggat caggatggga ggggtgacct cgagtgtggc ggcaagatg 120
gccttcttcc cgccgacgcc gccgtcgta cgcgtggtgg aggacgccgg tcggggggtc 180
accacgtca gcggccagcc gcaccgggag aacgtcgagt tgctgcgctt ccgcacccgc 240
aaagggaaca cgctggcggc gatgtacgtg cgccacccgg acgccgcgtc cacggtgctc 300
tattcccacg gcaacgccgc ggacctgggc cacctctacc agctcttctt gcatctgtcc 360
ttcaacctcc gcgttaacat cctcgggtat gactattcag gatatgggca atcatcagga 420
aaggatgat caaatcttga agttgaacaa tgt 453

<210> 17396

<211> 375

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D7

<400> 17396

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 acaatagctt atgcttaata ttgcagagta ctggagtagc gagttcacca cgagagcagc 120
 aagacacaaa cgagaagaaa atagcggcag agcacagggc tcgcaatcat atacggacct 180
 ttatttaacc gaccacggac tcacggtagg acgaggcacc cttcagcgac gggcagatgg 240
 gtaaccttga caggaacata ggccgtaggg ccttcaccgt cgctggcttc ctctgttcc 300
 tcatcatact gaaccaggcc agcagcgctg aagatgtacg ccttcactta ctggaagcgc 360
 tcctcggaga gagag 375

<210> 17397
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-D8

<400> 17397

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 cataactgta tgattcagat tacagcgctt tccaattcag cagcctaattg aacctaatac 120
 tccaatagtt caggtttaat ctctcactgt acaagatcaa catgctaacc aagtgcagc 180
 caagcaacga actaatcgac aatataacca cacaacaggg cttacactca taccggagt 240
 tgtat 245

<210> 17398
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E1

<400> 17398

cgggccggaat ttcccggtc gaccacgcg tgcggggcaa gcacacatgc tttaattctgt 60
 ttaccattt ttacttcga acgcgcggcg ggggagcttt aatccgggta ccttgactac 120

catttcaaac cccacaagct aatcattgac agcagcgccg tctcgacgtc agaatacatg 180
 gcgtcagcct catccgcgca gatcgcgccg gcacccctca ggattgggta ccgtaagccg 240
 gcgtccatt 249

<210> 17399
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-053-Q1-K1-E10
 <400> 17399

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 gcacctcgac catgggtgttc gagttggcgg atatggtact actgggttcg cgccactcg 180
 cctgaatgac aagccttact ggatcatcaa gaactcgtgg tgctagaact ggggggagaa 240
 cggatactac aagatatgca ggggttgcaa cgttcgcaac aagtgccgcg tacattccat 300
 ggtctctacc gcgtcctgag tagacgcac gaaggagtag actctgggtca gcggtgataa 360
 tcgtgattcc atatattgta gaactataat ccctgctagt aatccattt 409

<210> 17400
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3060-053-Q1-K1-E2
 <400> 17400

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 agggcttgtt tggttcacga catgggcaac caaggcatat agttccccac ttgaagatcc 180
 tggaatcagc gctgcagaaa agaattttat tgctagtcag agcacagcag gcgaacctgt 240
 taaaacaatt ccatggagat taatactatc aaaaccacct gtctgggcac ttatagtttc 300
 tcatttctgc cataactggg gaactttcat tttgctcaca tggatgcccata cactactaaa 360

tcagggtctg aaattcaacc tcatggaatc tggccttatac tgtgttcctc cctgggtcac 420
catggcggtt tctgcaaag tt 442

<210> 17401
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E7

<400> 17401

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aatactccta ttgacagatt cagattacaa tgttaatgtc aattttcgaa ggcaaaaaaa 120
acaaaaaaa aaaaaaaaaa aaaaaaaaaa cgactacagc tctaacaat ccaagggtcac 180
aggactcctg cattcaagtt catatactct tctatagtga cacctacatt tacttcagtg 240
gcacttaatt c 251

<210> 17402
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-E9

<400> 17402

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caatgctgcc tacatgcaga catacatcgg aggcgtgtca tgcccataca tctgtggcag 120
gcaccttgac catgggtgatc tccttgctgg atatgggtgct actgggtttcg cccccattcg 180
cctgaaggac aagccttact ggatcatcaa gaactcctgg ggctagaact ggggtgagaa 240
cggatactac aagatatgca ggggttccaa cgttcgcaac aagtgcggcg tccattccat 300
ggctcttacc gcgtccgtag tagacgcctg gaaggagtag actctgggtca gcggagataa 360
tcgtgattcc atatattgta gaactatgat ccctgctagt aaccattt 409

<210> 17403
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-F6

<400> 17403

gtccgcttgt tcgcagggtt tacaagactt ctctgtttta ccagtaatca cgcactgtgt 60
gggtccctta aaccatcatt cttgacgaaa ggtgactaat ctactacgcc aatttggtta 120
ttccacttgg tctccggtct aatccacgtt tttgtcatct ctttcgagat gaaaatttga 180
tttagcacca ttagcagctg tcattatcct catgcaatat ctatttctta ttgcttagca 240
cctaacaact catcatctct tggacatttc aacatgaaat tatcttcatg ataagaatgt 300
cctactgact tcagtatacc actacaaact aatttgaaaa tgcttgatca tttctgagat 360
gatta 365

<210> 17404

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-053-Q1-K1-H4

<400> 17404

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ggcgcgctcg gctggccgcg gtgccagtgg ccgtggacgc caccggcgcg cgccgctct 180
ccgtgtcggg gcggatggcc tgggacggtc cgctctcgtc ggtgcgcttg atcatgcata 240
gcaggaacgc gaagctgagc gagaagctca aggagcacat cgaggacaag gtgggtcggg 300
cgggtgtccaa gcactggcac ctggtcggg aggtagacgt gcgcctctcc gcgcgcggg 360
gcgagctcgg tcggagcccc aagacgtcgc gctgcgagat caccctgttc accaagcg 418

<210> 17405

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A12

<400> 17405

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tgtctacgtt cctgatgtac gtggaaggac agagattcta aaagtgcag gtagcaacaa 120
gaaatttgat tctgatgttt ctcttgatgt catagcaatg agaacacctg gggtcagcgg 180
agcagacttg gcaaaccttc tgaatgaagc agccattctg gctggaagac ggggaaggac 240
agcaatttct tcaaaagaga ttgatgattc tattgacaga attgtagctg gtatggaagg 300
gaccgtgatg acagacggga agagcaaaag tcttggtgct taccatgaag ttgggcatgc 360
aatttgcgga actttgacgc ctggccatga tcctgtccaa aaggttacct tagttccaag 420
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<210> 17406
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A3

<400> 17406

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cgagcactgc ctgtccacgg tggacacgga agcaccagcc gcggcatcat gttctacacg 180
caccgcgtgc tcggtactc catcaacgct tgggacaaca tggaatgata gttggacgag 240
cccgaggacg atgagaacct gaaccacctg aggtataagt acc 283

<210> 17407
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-A5

<400> 17407

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atgccgtacc attatggtgc gattctgcag ccgtataact accacagag tcctcttatg 120
cactgtgatt cagctggaat caacaaggca gcaatccagc atgcctctgg gcaacctaat 180
taccatgaag ctcccggtaa accatctcat gttcttattg aacacaaaca gtcagaggaa 240
aaccaccagt tgcatcattc aagacaaatt cttcgggaat caggagaacc aattgacatg 300

gcgagagctc acgtggatcg tgctaaccag actgcaagct gcagccaagg tatctgtaaa 360
 ggaagtggat gcacatgtag tggatgaagcc gatatcaacg caaacacaat gggtgccta 420
 gagagtggca acgagagtgg aatccaaaat gg 452

<210> 17408
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-A6
 <400> 17408

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 tcctatcgaa ttacttccta tcgaattgct atagctaaac tcctatagga tagaacgtac 120
 acaaggtgta cacatcatat atgaatgaaa catattcatt aacttaagca tactccttcc 180
 ttgatctaata gagctgatat taattaaata tctcctgtta tagatttttg cacaggtctc 240
 atttacgcct aatccatatg gagtagacgc tgacgttgtg agaattctta attcatgagt 300
 tgtagggagg gacttatgtc agcactgaca gaagctaaag cacgtgttgg atttaaagct 360
 ggtgacacgg attataaa 378

<210> 17409
 <211> 249
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-B10
 <400> 17409

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 tatgtccaac ttaagccagg cattgatcag aacatcttta cacctgcgat agactctgag 180
 tcgcccaccg ttgcataaac tcgtctcctt ctctcaata caaatgcgtt ccacgagctc 240
 tacaagccc 249

<210> 17410
 <211> 359
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B3

<400> 17410

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ggcagatgcc cattcactat gggtcgtacc gtctgaacta tttcacagtc tcttcaccta 180

tcacaacaca agtcacacat gctagtagaa cttgctactc attgaagatt gacaagaatg 240

acgcgtgttc catcacatac tttggtgacg gtggtacaag ttgatgtaga cttccatgca 300

tcgctcaact tctcgactgt tattgatgca ccggtgatct tcttctgcct gaacaatgg 359

<210> 17411

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B5

<400> 17411

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tgcacacggc tgatacctgg ccggactgac acctaaaact atctcactag ccggtccgat 120

acaactgccg cacttccaaa accttggcgt taccttactc aatcgccctg ctctacaata 180

ctctttttcc ggtcttccca acagcgatta ctccatgttc caaaagcctt ctcatgagac 240

gagtactctg actagcgact tggacacgcc ctggaatgca tcaccaatcg cgacgactat 300

ga 302

<210> 17412

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B6

<400> 17412

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actgagcggc cgaggagccg gttcttcgtc ggggcatctc agcggtcctg aggtcgctta 120

gcagcacata ttcggtgcgc taggctccga ctccggctcgg tacacctctc tacgcgtgct 180
 cgcttggtcac ttctcagcac ctatactcat caaagccgac actatgcaag tcactatcgc 240
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<210> 17413

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-B8

<400> 17413

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 tggactatgg taaagggagg cagatgccca ttcactatgg gtcgaaccgt ctgaactatg 180
 tcacagactc gtcacctatc gcaacacagt ttcggcatgc tgatggagct gcctactctc 240
 tcaagatgga ctacaaggac gcgtgtgcca taacatactt tggtgactgt cagacaagtg 300
 aggagactt ccatgcaatg ctcaacttcg tggctgttat ggatgcaccg gtgatcttct 360
 tctgccgtaa caatggctgg gccatcaaca ctccgactac tgaacaattc a 411

<210> 17414

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C11

<400> 17414

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 gtctgtgtca tgtacaccac ctccggcaca gcaggaagga gtggctacaa ctccgtacgaa 180
 cctgatggaa ggggtggata caactctgtt cccatcaacg gcggtggcag cccctagcta 240
 ggcggtggat cggagcctgt atcagaaatc gaaataatat aagactgtct tcaacggatc 300
 aactgccgc tccccacgc taaatttggg ggctacagtg cacacgctag ccgatcaacg 360
 gctcacgcta ccaggcgctc tacgaggatg tgccccctag ccagcttctc tctccccctc 420

gttctgtggt gcctctctca ccctctctaa tattgttcac gtgggccac ttccaattat 480

t 481

<210> 17415

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C2

<400> 17415

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atttgcccta tccggtagca agcttggtcc taagacgggt gagattgcct ctgaacctaa 120

ctaccaggtc actggtggta tggatagtga gcaaagaatc atcttttcag aaaagatccg 180

ttgtgcagta gaacaatcaa ctgcacaggc taaagggtgca agccttgact caatggaggc 240

agttaagcac aaggaaggcg tatggagcaa tctatccaca atctcaagaa acaagttatc 300

tccagaggtc gaagagaagc ttacctcagt tgcagcagct gctgaagcag cagtttctgt 360

tgcaaaggca gctgcagaag ctgccaagat ggcgtcagag gctgcattgc aggcgaaaat 420

aatggcagag gaaactctta gctcttttac a 451

<210> 17416

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C5

<400> 17416

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ggtcggcgag ctgtcgacgg tgtgcccgtg ggcggaccat gtgcgctggc actaccactg 180

ggccagcccg ctccactacg ccaacacccc ccaagtctgc aacttcaagt attctcggga 240

ctgccacaat tctcgtggcc agcaagggat gtgcgtcgtc ggggctatca acaactacac 300

ggaccagctc tacagctacg gccagaagac ttcgtataac ctgactgaga gcttgatgtt 360

cctggcacac ttcgtcggcg acgtccacca gccgctgcac gtaggcttcg aagatgacga 420

gggcggtaac accatcacccg ttcactgg

448

<210> 17417

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C8

<400> 17417

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ctgatggccc ttgtcgtaac tgctatggtc tgtgtcatgt acactacttc agcacaagca 120

ggaaggagtg tctacaactc gtacgaacct gatggaaggg gtggatacaa ctctgtagtc 180

atcaacggct gtggcagacc ttagctaggc ggtgtatcgg agcctgtatc agaaatcgaa 240

ataatataag actgacttca acgtatcaca ctgactctcc gcctagctaa atctgccgtc 300

tacagtgcac actctagccg atcaacgggt caccgtacca ggcgctctac gcggatgag 359

<210> 17418

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-C9

<400> 17418

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agaggtaacgg cccggtgtcc aagatgtcgg tgctgggctc gccgacgggt ctgctggccg 120

ggacggaggg caaccacttc atattcacca accagggcct catcctcacg cagacgcgcg 180

cgctccgttc cctcctccgc cgctccatcc tcacgctcac cggcgacgac ctgaagcagg 240

tgcgcagcgc gctgcagggc tacttaaggc ctgagatggg ccgggggtac gtggggaaga 300

tggacgccga ggtcaggagg cagctcaagc tcaactgggt tggtcgcagc actgtcaacg 360

tcctgccgat ggcgaggagc cttacactag gggatcatctg ctccgtcgtc ttccggcgaag 420

aagcagccgc catagt 436

<210> 17419

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D6

<400> 17419

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cttcgcgtgc ctctgctcca cgtgggcagc gcacacgact ggagccgacc atccgcctga 180

cgttagagcg cgcggctgtc gacgacgccg acgggacccg gtgggtccgtg ctgatcgcgc 240

tatccaacgg gtactacatg taccgtcacg agtcggacat ctgccatgca taccagatca 300

tgatgatggg cgcacttaag gacgtgaaca tactcgtctg catgtaccat gacatctc 358

<210> 17420

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D8

<400> 17420

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caacaatggc agcagcgacc ttatggaggc gggacacccc ccacaagacc taactcacac 120

caatcacaaa accgttatgg taccttagac agaagttcta acaagaggtc ctgaggtcat 180

ggccaatact aatccctaaa tgcataggcc cttattgagt aaaggggaaa tgtaatccaa 240

atccttgaca aatcactaag caatgccttc atccaaacaa aacccttac tgttgtggcc 300

ctatccttgt tagtaatcac caacaatgc cttagtacaa acaaccctt actgttatag 360

tcctgttcct gttagtaaaa attatcaggt atcatgaatg atgtcacctt agccagtgc 420

ctactacaag cttcttggtc gatttatcaa gaac 454

<210> 17421

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-D9

<400> 17421

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 atctgttgct gctgctgcc agtgcgtgat cactgctgat gattctgaag catgactttc 120
 tctaggaaat gctgctaata cttgtaaggg cggataccag ccatgacgac gcagttacac 180
 gcacgctgct cgggagatgc ttacagtaac gctgacatga cttagcacgc tgcagcagtc 240
 gcacgtccat gctggaaaag atccttgtag tcatgatatg gcttctgcgt aaggaatccg 300
 cagaagctag cgacgaccgg atgaccattg ctgtgcgaat gatatt 346

<210> 17422
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-E7

<400> 17422
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 agatgggtttt cgccaaggga gaccccgga ttgccggctt gtatgacgag ctgcttgtgg 120
 cggaagaact caagcccttt gggaagcagc tcagggacaa atacgtggag acacagcagc 180
 ttctcctcca gatcgctggg cacaaggata ttcttgaagg cgatccattc ctgaagcagg 240
 ggctgggtgct gcgcaacccc tacattacca ccctgaacgt gttccaggcc tacacgctga 300
 agcggataag ggaccccaac ttcaaggatga cgcgccagcc gccgatgtcc aaggagtctg 360
 ccgacgagaa caagcccggc ggactggatca agctgaaccc ggctagcgag taccgccccg 420
 gcctggaaga cagctcatc ctcaccatg 449

<210> 17423
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-F10

<400> 17423
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 gattgggtgta aggtaccacg ggctagctgt tggatcgggg aagcttataa tgtcaacggc 120
 tgtgggctgt cactgcttga agctgctgat gaaagtcaaa tctatctcta gacagggaaa 180

actcacctga taaaggctca acttgctgct ataggcgctc ctattatagg ggattctgca 240
 tacatgactg catcaatgac agctattgtc aacccaagca taaacgcatt cacagagaga 300
 ggctcagtta caacagtga caggtgaa 328

<210> 17424

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F5

<400> 17424

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 tacaacccta gcttatatgt tcaagtctca agaaaacagt ttgaactaaa aaaaaaaaaac 180
 aaaaaaaaaat aaagaaatat aaaaaaaaaat aaaaaaaaaa gaaaaaaaaat aactaaaata 240
 aaaaatgaat acaaatgaaa gatagaaagc acattctata acttaaaaaa attgaaagaa 300
 ccattatatg ctccaattac atgaaaagtg attgaagagg tgagggccat ttaagtccc 360
 ggtattacat attggtagcg tatgacatat tgtttgcaa ctgtcccatt cttttaaatc 420
 gatcagaa 428

<210> 17425

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-F7

<400> 17425

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ctgaaaatct ataatgactt cattgacagt caagaaagac gcaggatcga acggttagac 420
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 atcaa 485

<210> 17426
 <211> 139
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-F8
 <400> 17426

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 attcacctgg acccgactg 139

<210> 17427
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3060-054-Q1-K1-H5
 <400> 17427

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 gcgcggggca tcctggcgat ggacgagtcg aacgcgacgt gcgggaagcg gctggcgctc 420
 atcgtgctgg agaacacg 438

<210> 17428
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H7

<400> 17428

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caactgggtgt gtaaaagaaa acatgttgca tgtaaactct tcgaattcaa agtagatcat 120
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ccaccaactg aacgacccat gagcatatca cgatcaaggt aagacagata atataatcct 360
ccaggtgatc gtctttcagg accactaaca gga 393

<210> 17429

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3060-054-Q1-K1-H8

<400> 17429

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cggttttcat gaacctcaag tggaagcagc tttagagacca ctttcggggg cttgaacagt 360
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<210> 17430

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-057-Q1-K1-B7

<400> 17430

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<210> 17431
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-H5

<400> 17431

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 gcgccgctta tgaagccata cagcactcta tggatctgta tgctacatac atcgttgagg 360
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 gag 423

<210> 17432
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-B3

<400> 17432

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 agttcaggat tccttggaag aggtgaaaag gattgtgaac cctgggtgct cgcaggatgt 180

tcttaaagcg ggcgtgagtg ccatgtcttc tgtgacggaa aactgaaca tcatgacttc 240
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tccccacttt tttcagtggt ggcgattaac gagtttagga acagcaaccc tggatcataa 360
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g 421

<210> 17433
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-030-Q1-K1-F12

<400> 17433

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accgagtcgt ccgcggaatt gatgtgctct accccaagtt caacatcctg tcttctggcg 120
cggacctttc catctacttc ccgtacactg agtcgcacac aaagctgaac tgacttaa 178

<210> 17434
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-C5

<400> 17434

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aggacaccgt cggccgggtgc gagtcacaca tggcggtcac aatgcctggc ctgtaccgcg 120
ttgtccacgg cattgatgtg ttcgaccca agttcaacat cgtgtctcct ggccgggacc 180
tgtccatcta cttcccgtag accgagtcgc acaagaggct gacctccctt caccggaga 240
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ggaacaagcc aatcatcttc tccatggctc gtctcgaccg tgtgaagaac ttgactgggc 360
tggtggagct gtacggccgg aacaagcggc tgcaggagct ggtgaacctc gtggtcgtct 420
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<210> 17435

<211> 457
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 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-033-Q1-K1-D2

<400> 17435

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ttcctgcctt gaacgaaagg atactgtcat ccattgtccag gaggtctgtt gctgcacacc 180
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accgtgtgct gtattcgtca gttgtttacc ctccaaacta tggattcatt cctagcactc 360
tctgtgaaga cagtgatcct ttggatgtac tgggtataat gcatgagcct gttatcccat 420
gctgnttcct acgtgcgaag gctatcggcc ttatgcc 457
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<210> 17436
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-009-Q1-K1-D1

<400> 17436

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cccatgcgct tgagaaaact aagtacccta actccgacct ctactggaag aagtttgagg 180
atcactacca cttctcgtgc cagttcacca ctgacttgat tgcaatgaac catgccgact 240
tcatcatcac cagtaccttc caagagatcg ccggaaacaa ggacaccgtc ggccagtacg 300
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tcgaccccaa gttcaacatc 380
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<210> 17437
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-041-Q1-K1-D4

<400> 17437

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agcgctacat ctgcgacacc aagggcgctt tcgtgcagcc tgctttctac gaggctttcg 120
ggctgacggg ggttgaggcc atgacctgcg gcctgcccac gtttgccaca gcctacggcg 180
gtccggccga gatcatcgtg cacggcgtgt ctggctacca catcgaccct taccagggcg 240
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ggagcaagat ctcccagggc gggctccagc gtatcgagga gaagtacacc tggagctctt 360
actcggagag gctgatgacc ctcaccggcg tgtacgggtt ctggaagtac gtgtccaacc 420
tggag 425

<210> 17438

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-022-Q1-K1-C9

<400> 17438

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ggagctgggt aacctcgtgg tcgtctgcgg cgaccatggc aacccttcca aggacaagga 120
ggagcaggcc gagttcaaga agatgtttga cctcatcgag cagtacaacc tgaacgggca 180
catccgctgg atctccgcc agatgaaccg cgtccgcaac ggcgagctgt accgctacat 240
ctgcgacacc aagggcgctt tcgtgcagcc tgctttctac gaggctttcg ggctgacggg 300
ggttgaggcc atgacctgcg gcctgcccac gtttgccaca gcctacggcg gtccggccga 360
gatcatcgtg cacggcgtgt ctggctacca catcgaccct taccagggcg acaaggcgctc 420
ggcctgctcg t 431

<210> 17439

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-002-Q1-K2-F9

<400> 17439

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accatgatgt tgaacgacag aatccgcagt ctcagtgtct tgcaaggtgc gctgaggaag 120
gctgaggagc acctgtccac cctacaagct gataccccat actctgaatt tcaccacagg 180
ttccaggaac ttgggtctgga gaagggttgg ggtgattgcg ctaagcgtgc acaggagact 240
atccacctcc tcttggacct cctggaggcc ccagatccgt ccacctgga gaagttcctt 300
ggaacgatcc ccatggtggt caatgtcgtt atcctctccc ctcattgnta cttcgctcaa 360
gctaattgtct tgggttaccc tgacaccgga ggccagggtg tctacatctt ggatcaagt 419

<210> 17440

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-023-Q1-K1-D10

<400> 17440

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gaaatcgagg agctcatcta cagcgacgtc gagaactccg agcacaagtt cgtgctgaag 120
gacaagaaga agccgatcat cttctcgatg gcgcgtctcg accgcgtgaa gaacatgaca 180
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gtcgccggtg accacggcaa ggagtccaag gacagggagg agcaggcgga gttcaagaag 300
atgtacagcc tcatcgacga gtacaagttg aagggccata tccggtggat ctcggcgcag 360
atgaaccgtg tccgcaacgg ggagctgtac cgctacattt gtgataccaa gggcgcatc 420
gtgcaacctg cgttctacga agcgttc 447

<210> 17441

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-048-Q1-K1-G5

<400> 17441

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 catcttctcg atggcgcgctc tcgaccgcgt gaagaacatg acaggcctgg tggagatgta 180
 cggcaagaac gcgcgcctga gggagctggc gaacctcgtg atcgtcgccg gtgaccacgg 240
 caaggagtcc aaggacaggg aggagcatgc tgagttcaag aagatgtaca gcctcatcga 300
 cgagtacaag ttgaagggcc atatccggtg gatctcggcg cagatgaacc gggctccgaa 360
 acgggagctg taccgctaca tttgtgatac caagggcgca ttccggcagc ctgcgttcta 420
 cgaagcgttc ggctgact 439

<210> 17442

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-001-Q1-K2-G2

<400> 17442

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 gcgtccgcaa cggcgagctg taccgctaca tctgcgacac caagggcgcc ttcgtgcagc 120
 ctgctttcta cgaggctttc gggctgacgg tggttgaggc catgacctgc ggctgcca 180
 cgtttgccac agcctacggc ggtccggccg agatcatcgt gcacggcgctg tctggctacc 240
 acatcgaccc ttaccagggc gacaaggcgt cggccctgct cgtggacttc ttcgacaagt 300
 gccaggcgga cccgagccac tggagcaaga tctcccaagg cgggcttcaa cgtatcgagg 360
 agaagtacac ctggaagctt tac 383

<210> 17443

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-G12

<400> 17443

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 accgtggggc agtacgagtc ccacatcgcg ttcactcttc ctgggctcta ccgtgtcgtc 120

catggcatcg atgttttcga tcccaagttc aacattgtct ctctgggagc agacatgagt 180
 gtttactacc cgtatacggg aaccgacaag agactcactg ctttccatcc tgaaatcgag 240
 gagctcatct acagcgacgt cgagaactcc gagcacaagt tcgtgctgaa ggacaagaag 300
 aagccgatca tcttctcgat ggcgcgtctc gaccgcgtga agaacatgac aggcctgggtg 360
 gagatgtacg gcaagaacgc gcgcctg 387

<210> 17444

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-015-Q1-K1-B9

<400> 17444

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 gcgggcgtgc aagcgcgcaa gccctggccc ggggagcccg accggcgtcgg accgcagcga 180
 cctcagccac ggctgcggcg ccgcgcaggt gttccgtccc gtcccgcgcg ccggaggctt 240
 cgacgccatc agcgccgcag acgtgcgccc tccgcccccg ccagcagtcg cagacgagga 300
 cccgctcacc tcgctctccc tctcgtgcc ggtgctggac cagtcgccgt cgggcttnca 360
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<210> 17445

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-021-Q1-K1-F6

<400> 17445

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 gaaggagctc gcggagaagc agaaagacca gcggcagcaa gtgcaacggg accgaactca 180
 acagcagacc agttcgtctt ccacgtcctt catgttaagg gaagctgccc caacaacaaa 240
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gcaggctcgc gttggactgc caccatggat gcttagccat ctgagctgct gaaggtttgc 360
 cctcaccgtc gcgatgtgat agcccaaat ccagcaagtc ttccccggac cccggactgt 420
 ccccgcttct ccgcctggtg cagtatcgtc gtgatcgca gaagcagcag 470

<210> 17446
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-045-Q1-K1-B11
 <400> 17446

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 cctgaagaat ctctgcacac cttaggaggc ttactttttt ccccttttct gttactacat 180
 aattcggaat tagatttgct aaagaggagt gagtgaagtt gttcctcggt gtgactgtac 240
 cgggcaaggt gtcgtccccg ccgtgcttaa ctttatgatg gaatttcttt tcagagcacc 300
 taccacctga agatttggtg gatacgtata ctacttcgg aaagaatgta gatagcaagc 360
 agttggacaa gcacaagatt ttaatttaaa acatgatttt gttctccatc ttctgaag 418

<210> 17447
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-014-Q1-K1-A5
 <400> 17447

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 gttgtcttta ttgatgagat tgatgctgtt gggacaaaga ggtacgatgc tcattctggt 120
 ggcgagcgtg agattcagag aaccatgttg gagttgttaa atcagctgga tggttttgat 180
 tcaagaggag atgttaaagt tattctagca acaaactgta ttgagagtct tgatccagcc 240
 ttgcttcgcc caggctgaat tgacagaaag attgaattcc ctttacctga tgtcaagact 300
 aggcggcgca tcttcagat acacacatcg aaaatgacac tggctgatga tgtaaaccta 360
 gaagagttaa ttatgtcaaa agatgagttt tcagggtgctg acatcaaggc catttgact 420

gaagctggc

429

<210> 17448

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H3

<400> 17448

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ggatgaatcaa ctggatggat tcagcatcga tgagagaata aaggatcatag ctgctactaa 120
ccgtgctgac atccttgacc ctgctctgat tcgatctgga cggttggacc gaaagattga 180
gttcctcac ccatccgaag aagcatgagc tagaatcttg caaatccatt caaggaaaat 240
gaatgtaaata cctgatgtca actttgaaga attggctcgc tcaactgatg acttcaacgg 300
aacacagcta aaggcaattt gtgtagaagc tggatatgctt gccctacggc gggttgctac 360
agatgtaact cagcaggttt tcaatgaatg gatcgtacag gttc 404

<210> 17449

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-039-Q1-K1-F1

<400> 17449

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ggagtctgga actggcaacg gtgacagtga agttcagcgt actatgcttg aacttctaaa 120
ccagcttgat ggttttgaag catcaaaca aattaagggtt ttgatggcaa cgaacagaat 180
agacattttg gatcaagccc ttctgaggcc tggccgcata gacaggaaga ttgaatttcc 240
aaatcctaac gaggattcac gtttcgatat cttgaagatc cattcaagaa aaatgaactt 300
gatgcgtggc attgatctga aaaagatcgc ggaaaagatg aatggggcct caggagctga 360
gctcaaggcc gtctgcacag aggctggaat gtttgctctt cgtgagagaa ggggtgcacgt 420
ta 422

<210> 17450
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-002-Q1-K2-B3

<400> 17450

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cgccgcaacg ggctgctcaa gaaggccttc gagctctccg tgctctgcga tgctgaggtc 180
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cagaaaacaa ttgaccgcta caggacatac acaagggaat atgtcaataa caagactgtt 300
caacaagata tacagcaagt caaagcagat gccgtaagct tggcaagtag actcgaagcc 360
cttagaaaga ccaaacgaat gtttctgggt gaaaatttaa aaga 404
  
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<210> 17451
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-011-Q1-K1-F6

<400> 17451

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attatcaacc agcttgggtc tgacaacctg gacaatctgc ggaggctcgc agagcaattc 180
cagaagcagg cctctggtgc ttctggtgca gaggctggtg ccagcgtggt ggctgttcag 240
gacgatgatg atgacgttcc tgagcttgct cctggagaga catttgagga ggccgcggaa 300
gagaaaaagg agtcctcatg attttcttac atgcctgctg ttgttaaacc atgccattag 360
aagggacctg ttgagaactc tgacctacct tatttctgcc tgtgggactg gttatgtcat 420
gatcg 425
  
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<210> 17452
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-026-Q1-K1-F3

<400> 17452

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cgtcaccatt gctgcgacga gagtgagcgg gagagggtag gtggcgaggc ggcggagatg 120
gggcgggggc cgggtgcagct gcgccggatc gagaacaaga tcaaccgcca ggtgaccttc 180
tccaagcgcc ggaacgggct gctgaagaag gcccacgaga tctccgtgct ctgcgacgca 240
gaggtcgcgc tcatcgtctt ctccactaag gggaagctct acgagtactc tagccattcc 300
agcatggaaa gcattcttga gcgttaccag cgttacctca ttgaaagaag ggcagtactt 360
aacc 364

<210> 17453

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-C6

<400> 17453

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gagagctgat gagaatgtgc tgaagcttgt ggaagaacaa aaagtatgta ccttggctcc 120
tgtgatatga tgctttaggt ttcaaacaat gtgtcctatg gtagtcttac tgtatggaaa 180
ctacagaggg agaaacatgc tgcgttaaag aagattctga tggttgaaca acaattggat 240
gcaaaaacaaa agcttgaatt agaaatacag cagttgaagg gcaaaactaaa agtgatggag 300
catatgccag gtgatgaaga ttcagcgtca aagaataaaa ttaatgagct gagtgaggca 360
ttgcaagaaa agatagatga actggatgga atggagtcac ttaaccaaac tctggttatc 420
aaagaaagca aaagc 435

<210> 17454

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-044-Q1-K1-A11

<400> 17454

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 cgcctccagc accggagacg cagctgccgc gggcgggagc ttggacgtgc tactctgctc 120
 tcatctcggt tccgcgcagg aattgttcac aatggcccgc gtgtatgttg gcaacttga 180
 ttcacgggtg acttctgggg aactcgaaga tgagttccgt gtgtttggag ttctgcgaag 240
 tgtttggtt gcacgtaaac cacctggctt tgcatttatt gattttgacg acaggaggga 300
 tgcggaggat gctattcgtg atctagatgg taagaatgga tggagagttg aactatctcg 360
 taattccagt ggtcgtggtg gtcgtgatcg gtatgggtga tctgagtcga agtgctatga 420
 atgtggtgag actgggcact ttgcacgtga atgtcc 456

<210> 17455
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-039-Q1-K1-A5
 <400> 17455

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 tgtaccttgt ggacaagctc accgccgaca accgcatcta ccacaaggcc tgcttccgct 180
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 actgcaggcc tcaattcgac cagctgttca agaggacagg gagcttggac aagagcttcg 300
 aaggaactcc caaggttgct aagccagaaa gaaacgttgg gaatgagaat gctactaaag 360
 tctcaagcgc ctntgctggc accagagaga aatgtgttgg atgcagcaag acagtctatc 420
 ccac 424

<210> 17456
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-030-Q1-K1-A5
 <400> 17456

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cctcgtgcgc aatgtagtta gaagggctgg tgggtcaagc accaccacat ccagctgac 180
aaggagaagg ggaacttcag ccagcttgag aatgaccacg agaagacatc acaggctggg 240
tctactggagg acgatgaaca agagtattga tctactgagca caaccacaga tgaataatga 300
atcctcttgc atttgcctag agcactatgt atttctgtgg cgtggttcga tttcagtttt 360
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<210> 17457

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-003-Q1-K1-F4

<400> 17457

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tggctctctgc cgcctgaacg ccgccggaat ctgcgaggcc tccccgagct gcgtccgtcg 180
tcagataagg cagccgccgg cacggcaatg ccggttccgc ttgctccgta cccagctcct 240
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aacctcctca tgtaccacgc tgggtgcgacg tcgggtctgct gcgccgtctg cagcaccgtc 360
accggcgtgc cggctccagg aactgagatg gcgcagctag tgtgcggaag atgccacacc 420
cttctcatgt acatacgc 438

<210> 17458

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-024-Q1-K1-H10

<400> 17458

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gggaagaaag ccagtgggga catgcctgcg acaacaggaa gcggatgctt cgaatgcaac 120

atctgccttg attttgcac agaaccagtg gttactttct gtggatcatct ctactgctgg 180
ccttgatctt acgagtggct gcgccttggg gtggagtcag ctgccagcga caacagcagt 240
tcggcaaggc ggcaatgtcc tgtatgcaag gcaacactct caacggacac ccttgtgcca 300
ctatacggcc gtggaggcaa ctcaaagaag tcaattgatg gcatggccat cccgcgccgt 360
cccatggtac accgggagac tgttgaggag caacagaatg cacagagcaa tgtcaatgac 420
cagcactacc accagagcat ggaagacaac 450

<210> 17459

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-019-Q1-K1-G1

<400> 17459

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taacaaaatg cttagcacia acagcaciaa agactttcag tgattttgaa gaagctgttg 180
aaaaggatgc aacaagaat attcactatg atggaacagt tcatccttta acaagctatg 240
tgatcaacta tggttaagttt ttgtttgact accagtcaac tctaaagcag cttttccagg 300
agttcaagga agatgggaca ggttctgagc tggcagctgt aacaatgaaa atcatgcaag 360
ccttacaaaa taatttagaa gcaaaagcaa aacaatacaa ggatcctgca ttgatgcaca 420
tatttttgat gaataacatt cacta 445

<210> 17460

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-043-Q1-K1-E7

<400> 17460

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caggcggcgg tcccgccggc ggcttggtcc atcgaggcgg gagaccgatg cttggccttg 180

aagaagggcg cggcgtaaaa cggcccttct tcacctcgcc agacgagctc ctcgaggaag 240
 agtactacga cgagcagctg ccggagaaga agcgccgcct caccacagag caggtgcttc 300
 tgctggagag gagcttcgag gaggagaaca agctggagcc ggatcgcatg acggagctgg 360
 cgcgcaagct 370

<210> 17461
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-028-Q1-K1-G3
 <400> 17461

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 tgtactgcgg cgcgagacgac gtcggcgctcg gaggcgagga ggcgagctgc ggcgcgacga 180
 acgaggacga ggtgtcggac gacggctccc tgcaggccgt cgggcccggg gagaagaagc 240
 ggcggctgaa cgtggagcag gtgcggacgc tggagaagaa cttcgagctc gggaacaagc 300
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 ccatctg 367

<210> 17462
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-021-Q1-K1-G12
 <400> 17462

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 cctactgagg attacaatga cattggcgga cttgagaaac agattcaaga gcttgtggaa 180
 gcaatagtgt taccaatgac acacaatgac cgatttcaaa aattgtgcat tcgttcccc 240
 aaaggggttc ttttgtatgg acccctggg accgggaaaa cgctcatggc tcgtgcatgc 300
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attggtgatg gagctaaggc ttagaaaatg cttt

394

<210> 17463

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-029-Q1-K1-C8

<400> 17463

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agagtacgat tcacgagtga aggcaatgga agtggatgaa aagcccactg aagattataa 120

tgacattggg ggtcttga aa agcagattca agagcttgta gaggcaattg tactgccccat 180

gacacataaa gaccggttcc agaagttggg tattcgctcct ccaaaggagg ttcttttgta 240

cggaccacca agaactggca agacactcat ggctcgtgca tgtgctgcac agacgaatgc 300

aacgtttctt aaattaactg gtccacaact tgtgcagatg tttattgggtg atggagcaaa 360

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<210> 17464

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-038-Q1-K1-H8

<400> 17464

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acgattcacg agtgaaggca atggaagtgg atgaaaagcc cactgaagat tataatgaca 180

ttgggggtct tgaaaagcag attcaagagc ttgtagaggc aattgtactg cccatgacac 240

ataaagaccg gttocagaag ttgggtattc gtcctccaaa aggggttctt ttgtacggac 300

caccaggaac tggcaagaca ctcatggctc gtgcatgtgc tgcacagacg aatgcaacgt 360

ttcttaaatt agctgggtcca caacttgtgc agatgtttat tgggtgatgga acaaagcttg 420

tccgggatgc att 433

<210> 17465

<211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-018-Q1-K1-D6

 <400> 17465

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 cgaagccctg ctccgccggc gatgtcgtca tccggcgccc cggccccggc ggcggcaatg 120
 gccgttgacg acgcggagga cgaccagctc gcctccatgt ccacggagga tatcatccgg 180
 gcctcccgcc ttcttgacaa cgagatccgt gtcctcaagg acgagttgca gcggacgaac 240
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<210> 17466
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-025-Q1-K1-D8

 <400> 17466

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 ggggtggagg tcaagtcccc ggctgacaag ctgtgggcgg cgctgctgta ctcgacggag 120
 ctgttcccca agatcttccc cgagcagtac aagagcatcg agaccgtcga gggcgacggc 180
 aagtcggccg gcaccgtccg cctcctcaag tacaccgagg cggtgccgat gctgacgttc 240
 gccaaaggaga agcttgagac ggcggacgac gagaacaagg tgggtgctgta cagcgtgggtg 300
 gacggcgagc tggcggactt ctacaagaac ttcaagatca cgctgaaggt gactccggcc 360
 aaagcggang gcgagggcgg cgccgtcgtc agctgggcca tggagttcga caag 414

<210> 17467
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-018-Q1-K1-B10

 <400> 17467

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gctcggaggc ggactgacac aggatcaggg gcccgtggag ccccgaggag gacgacgcgc 180
tgcgggcggt cgtggagcgg cacggcgcg cgaactggac ggcgatcggg cgcgagatcc 240
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agcgccggcc cttcacggcg gaggaggacg cggccatcgt ccgcgcccac gcgcgcctcg 360
gcaaccgctg ggccgncatc gcgcgcctnc tccccggccg caccgacaac gccgtcaaga 420
accactgg 428

<210> 17468
<211> 254
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-026-Q1-K1-H5
<400> 17468

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ttccaaccat caagaagctg aggtcttacg ccgacaggat cggggcctcg gagctcgaga 180
agtgcctgca gaagatcggg gacgacgctc tcaccaagaa gacgaggaga gccatcgagg 240
agctaagcac cggc 254

<210> 17469
<211> 398
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3062-044-Q1-K1-F8
<400> 17469

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gattccagtt ccactccgcc tccgctgccg gtcgcgcact ccgaaactcc gacagtccga 120
ccacaaggtc ttgtgcggga tccacagaag gatgagtga gaggataaga ctgctgcttc 180
tgctgagcag ccgaagaggg cccctaagct caatgaaagg atcctctctt ctctgtccag 240

gaggtccgta gctgctcatc cgtggcatga tcttgagatc ggtcctgatg ctctgctgt 300
 tttcaatgtt gttgttgaga tcacaaaggg aagcanagtt aaatatgagc ttgacaagaa 360
 aactggactg attaanggtg atcgagtcct atactcat 398

<210> 17470
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-015-Q1-K1-G12
 <400> 17470

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 agcttgggtc tgagagtaga tttcctgggg tcccttacat tgtttttctt ggtaatgttg 180
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 caaaagaaat tcttcttgat gcggagaatg gcggttatgc tgttgggtgct ttcaatgtgt 300
 ataaccttga gggaattgaa gctgttggtg cagcagcaga ggctgaaaag agtcctgcta 360
 ttcttcagat tcatccgagt gctctaaagc aagggtggagt cccactggta gcat 414

<210> 17471
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-031-Q1-K1-E8
 <400> 17471

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 tattttcagc cttcaagggg gcgagggact cacgatgtca ctatcaaccc tgggttagaa 180
 ggcagggcc aagaatggctt cgcttctggt ttgaagcttg atttagacaa gtatgtagtt 240
 ccaacaccaa acatgggctc aggtgttggt tatgcagcta gtttgactga aaatccacgc 300
 tcattattgc aaactgcgag ttcctcatac aatgatacca caaaggacat ttgcacaac 360
 tcaactaaag gcgattcatc cttgaatcac tatgttaaca ctatgaagag cacaattgga 420

gggcatgcat cgtcactgga ag

442

<210> 17472

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A8

<400> 17472

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tgacaagtgc tgaagaacca gatgagcctc ctctgtgaag aggagcctac accggactga 120

tcagtgcata acaactgggtg gacatcatct gtcaatggat gattcttgga cactctgagc 180

gtagacatat tattgggtgaa aatgatgagt ttattggaaa gaaggctgca tatgcataga 240

gccaaaatgt taagggcatt gcctgcatag gagagctgct tgaagagagt gaagcatgca 300

aaactcttaa tgtatgttga atgcagatga aggcttttg 339

<210> 17473

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-056-Q1-K1-F9

<400> 17473

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gagaagaacg ggcggaagca cagtctgggg gagctcatcg gcactctgaa cgcggtcaag 120

gtgccggccg acaccgatgt ggaacgtgct cagcatactg cctatatcga cttagtccgg 180

cagaagctag atcccaagaa cgctgaggct gcgcagaact gctacaaagt gactaatgac 240

gcttgaactg atgagatcag ccctggcatg atcaaact gcggagccac acgggaggta 300

ctggggcact cagagagaac gcatgtcttt ggggagtcag atgagctgat tgggcacaaa 360

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<212> DNA

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<400> 17474

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cgagatgggc cgcaagttct tcgttggtgg caactggaaa tgcaatggaa ccgcagatca 120
ggttgagaag attgtcaaaa ccctgaatga aggaaatggt ccctcttcag atgtcgttga 180
ggtcggtgtc aagcctactt atgtgttcct cccggtgggc aagagccagc t 231

<210> 17475

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-045-Q1-K1-F6

<400> 17475

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caagccgagg tgccctctga agacgtcgtc gaggtgggtg tgagtccgcc tttcgttttt 180
ctgcagcagg tcaaggggct gctgcggctg gacttcgccg tcgcagcgca gaactgctgg 240
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gtgccctgng tcattttggg acattctgag cgcagagctc tgttgggtga atccagtgat 360
tttgttgctg ataaagttgc atatgcactc actcaaggtc tcaaggaat tgcttgcat 420
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<210> 17476

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-C6

<400> 17476

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caggcccagt cccgtggcgg tggcgggtggc ggcggtggct acggcggcgg tcgcgggcggc 180
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cggcgcgagg gtggtggcgg cggtacgga ggcggtggcg gctacggcgg tcggcgcgag 300
ggtggtggtg gcggctacgg cgcgggcggc ggcggtgga gggactgatg tgtgggcca 360
tcctggcttc ggccgagtta tcttatctat ctatagtatc gtgttaccgt tcgcttctgt 420
cacctgttta gtgt 434

<210> 17477
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-C8

<400> 17477
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agggaggttag tagttggcaa gaagagggca attgaagctg agacaccttc tggtagaag 120
gctaagtctg aacaatctgc tcagaaaaca ggcgacaagg tctcaacttc tcacctgca 180
aagcagtcca gcaagactcc tgcagacaaa tctacaaaga ccccccacagc tgacaagaag 240
tcccccaaat ctgggagcca tgctgcaag tcatgcagca aatctttcgg cagtgcgtca 300
gcacttgagt ctcatcagaa ggcaaagaag catgaagcct agagcacgtg ctataccatc 360
tactcgttat caaaatcagt ggtcttattt ttgaacttga aaatgtccaa gtttggaaact 420
tgcccagtag tcacctgatt agtgggttta tttt 454

<210> 17478
<211> 451
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-C9

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tgtctttggt gttgatgaca ctctgaaggc tcttgaaatg ggtgctgtcg agaccctgat 180

tgtgtgggaa aatctggata tcaacagata tgtgatcaag aacagtacta ctgggggaaat 240
tattataaaa catctgaaca aagagcagga agctgaccag agcaatttcc gtgacccatc 300
taccaatact gatctcgaag ttcaggaaaa aatgtctctc ctggaatggg ttgccaatga 360
atacaagaag tttggttgct cgttggagtt tgtgaccaac aagtctcagg agggatccca 420
gttctgtaga ggatttggtg gcattgggtgg c 451

<210> 17479
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D1

<400> 17479

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tgatccaata attaccatta cggactctgt atctaattccg atggcatatt gcttggctgt 300
tatgaagagc gaaggtgtta acttaatagg ggagaatttt atgtctgggc tgaaggtcct 360
gtttgatcca aagaagaagg tcttgggctg gaaaaacttt ga 402

<210> 17480
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D10

<400> 17480

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ttcatgactt tcaaaacctt atccctaccc aaattaatca tattgcatat acataccact 120
ttagccagct cttgtcataa cctataagcc taaacagatc tccc 164

<210> 17481
<211> 448
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D11

<400> 17481

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gccatgggag gcggcaacgc ccagaagtcc aagatggcgc gcgagaggaa cgccgagaag 120
aacaagggcg gcaaaggcag ccagctggag gccacaaga aggccatgaa catccagtgc 180
aagatctgca tgcagacctt catctgcacc acctccgagg ccaagtgcaa agaactagta 240
gaggcgaggc atcccaagaa cgacctctac cagtgtcttc ccacactcaa gaactagtaa 300
gcagcagaag catatgtctt gtcagctaa aagacaagta ctacatatat atatatatac 360
gctgtgtgtc aattaatggg ttctaggctg ctgctgatgc ggctgtctcg ttcgtgttgc 420
ccggtctgat tatgtactgt aacccttg 448

<210> 17482

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D12

<400> 17482

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caccactgag aggcacgcag aggagcagga agccggagac caagatgtcg tcggtgttca 180
gcggcgatga gacggcccc ttcttcggtt tcctcggcgc cgccgcccgc ctgctcttct 240
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tgatgcggcc ggagctcgtc atgaagtcca tcgtgccctg ggtcatggct ggtgtgctcg 360
gtatctacgg gctcatcatc gccgtcatca tcagcactgg gatcaaccgc aaggccaaac 420
cctactacct ttttgatggc tacgct 446

<210> 17483

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D2

<400> 17483

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cctcaacttc gacgccttcc acggcgacaa gggccacggc ggcgtgcacg acggcaccac 180
cgtggtgctg tgggagtggtg ccaagggcga caaccagagc tggaagatcc tgccctgggg 240
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cggcgagccc accgtccgca tctactgcaa ggccgacgag gggttcagcg ccacggtccg 360
caacggcgcc gtgtgcctcg cgccaccaa cccgcgcgac gattaccagc actggatcaa 420
ggacatgcgc cacagcaaca gcgtc 445

<210> 17484

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D4

<400> 17484

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tgacctctaa accaccttaa caaaatctca aaattcacgc ctgggctttg attctgcaac 180
cgtgactcgg atctgtctac catccaagtc gatgccatca aggtttgata tggcattgtt 240
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gtcgtagatg accttagcat ccagcacctg tccttgctca ctgaataggt tctccagagt 360
cgagttgtca acgccccatg caagggtccc cacgtatacc ttgttccttg aatcgacaaa 420
gctgctgctg ccgacaccac caccaccacc ccttggtgct cttggtgc 468

<210> 17485

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D5

<400> 17485

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ctacgtgcag gtcgtggtgg tttgcaagtt ggaggtggga taaatttga gaatgcaatg 120
tcttacctta atgaaggggc cagtcagtgt atagtgcctt cttatgtgtt tagtgatggc 180
aagatgaaca ctgaaaggtt aagaaaactt gtcgagctgg ttgggaaaca gaggctcgtg 240
ctggacctca gttgtcgaaa aaaggatggc cgatatacca ttgtaactga cagggtggcaa 300
aagttcagtg atgtgtctgt ggatgaacca acattagaat atctcgctgc ctttgcata 360
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<210> 17486

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D6

<400> 17486

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cagtcaactt ctcaagttgg tggctctatgg aatagcaaag gattgagata tttccggcag 180
gagttcgatg tacgtgggtgc tgtgcctttg ggattttata gtgctgctct caacgttggt 240
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ccagagaggt tttatcttgg aggttaattct tctccagtgt gcagcttggg cggaccgtca 360
tctctgctgg gtttcagatt aaggggagtt ggcccaacag aggcgcggaa gcatgtcctt 420
aataactcgg agagtgggttc ggctg 445

<210> 17487

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D7

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cgcaactattg ggtatagttg ggtgcggcaa gcagcaagag aacttgggaa aagtagaatt 120
tatatgggtg taccgtttat agctgagtgg gttagagaca aaggacacca cattaaatcg 180
cagggttaatg ctgcttcagg tgctatttct ctaatacaac ttcaagaagg gatgaaaaag 240
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gccatgctta gctcgctatg gaaaattaat gtggctcgata ttgagtcaac actttcacgt 360
gtctgccaaag cagttctgag agataacacg gtctccaaag atgtcctgaa gctgcgagcg 420
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<210> 17488

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D8

<400> 17488

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gggggattac cgctgctag ctgcggtca ctagtacttt acagattctc ctgcacgaac 120
gatacccggtg cacagccatc tcacaaacac gtgctactta atcttgcgag gatcatatag 180
caccgacatt gacgatacat catgcaacga ttctacagag acaggaagcg ttgacaagaa 240
ttcagccaaa gatgtcaggc acatcttgaa tacatgcgac aggtctttcc aacgaacata 300
atgacttgac actcatgata ttgactacac tcttgagaaa tagggatgc tctctctcaa 360
atagttggca tgaacctcag cggatatcat 389

<210> 17489

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-D9

<400> 17489

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acagcgggtg cggcagctac tgtggtggca gcggcagcta cagtgggtggg ggcatcggct 120
acggcgggtg caaccgtggc ggccgctact gcaactccga cgggaactgg aggaactgac 180

cggtggggcc cgcgcgccca agttatcctg atcgctaccg agttgtttac cctagtccag 240
 agtgttttatc ttcgttcgtc tcgtgttcgt tgttgcccat ctgtgttttt gattgaaggt 300
 cgctctgtgt cagatgctag tgctgtgttc atactcagct ccagcagacc catgcatcaa 360
 ccagcatgga ctgcggat 378

<210> 17490

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-035-Q1-K1-C5

<400> 17490

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 ctgtggttat tgcgggggat ctaggtgcaa cacttggtact cccagacatc agaggaaatg 120
 aattaggaaa taagcgaaaa ttccaagaca ttacaatgt ggataagttc gtgaggagcc 180
 tggatggtgt tgtcgaagta atagaggata tacctgatga agtgagtgtc aagaagccag 240
 cagtcatcag agtaccgaac cgtgtgactg aaagcttcat cacaggcacc atccagccca 300
 tcttccaaaa aaacaagtac ttaagactag cggtcatttt ctcttcgta agtttaaggc 360
 caaaggagac gaacaacatg gacatggacg caactgcttg ccttgcgatg ttcgggtggcc 420
 tcgagctgaa gcacgaatat tctgaggtgg ccagaanaat gctggata 468

<210> 17491

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B10

<400> 17491

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 atctccctcc ggttctcgcc atgggcgccg ggggcaacgg ccacgaggag gggagccccc 120
 tcatcccagc tgcggtcgcc gcccccgct acgagaagcc cccgcaggct ccggcgccgg 180
 aggccgcaa ttactatgcc gacggggtcc cggctgtgat gggcgagccc gtgtcgcccc 240
 acgccttctg cggcgtcccg cgggagagct ggaactccgg gatcctctcc tgccctcgcc 300

gcaacgacga gttctgcagc agcgacgtcg aagtgtgtct tcttggaacg gtagcaccat 360
 gtgtgctcta tggtagcaat gttgagaggc ttgctgctgg acaaggcaca tttgcaaaca 420
 gctgtttgcc ttacactggg ctgtatttgc ttgggaactc tctcttt 467

<210> 17492
 <211> 262
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-B11
 <400> 17492

gcaccttcgc ctggcacatc ctcggcggcg cggtttctctg cttcttcacc ggcgtggctg 60
 cttgggcacg ggggtgcatga ccggcttggt caccgacgtg accgcctact tcttcgacaa 120
 cgcggatgcc tgcggcggac aaaacgtggc ggactaccgg gcggtcggat ccgcgaacga 180
 acaaatctac ggcgccctgt aaatcttcgg acgcgcacg gcagactacc gggcggacgg 240
 atccacggac gaacggatct cc 262

<210> 17493
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-035-Q1-K1-B12
 <400> 17493

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 agaaggcgag gaccatggcg cgcaggctgg agatcccca gtggaaggcc gactgcctgc 180
 cgtcgcgcac gagcccgctg gaccgcgct cggcgctacc ccatgggtgg cgccacctcg 240
 acgccgtatg acgaggcctg gggctcggga tcttggcagc gctcgaggcc gagggcccg 300
 cgcagcccg gcgcagggtg tccatcccg gcgcgcagc ggggctggag gtgtcagagc 360
 tcgagtgcac cgggcgctgc gccaccagcc tgtg 394

<210> 17494
 <211> 483

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B2

<400> 17494

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tttttttttt ttttaaactc ggtgaacagt aggatggctg taattgagtt catgtacagt 120
atcatcgtca ataattaccc aagttaatag gaaacataca ttttggaaca ctgaactctg 180
ttgtgtgtgg agaaaatggc acgattatgg ttatcttttag tatggctcta catgtaatcc 240
aacacatgct ctgcaagaaa gcttagctca gattgectca tttgagactc tacagttgag 300
ctgaataggt tcattgagga gataaaagat gcacattttt atccgaaaac cttttgcaaa 360
tcttctcgca tattagactc tgaatatgcg ccacattttt cttttgcgtt tccagagtaa 420
agaagcagaa actcggaaca ttttaacctt acatgggtcat ccctatttgc atcttttaca 480
atg 483

<210> 17495
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-B3

<400> 17495

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cggcagtcta tcgaggcagc gagaacgaac aactgggacg gcgtctgggg aaactgagat 120
catgcctatg ggtgcaacga gttgaatcat atagaacaag tgcaagggct atgacctatg 180
ggagtttgct tgccttttga ttcacaaaaa agaagattgc ggccagatac cgccttttgt 240
ggcaacttat gggaagctgt gaagaagaaa ctgctgggcc tatcttgctt ttcgcagctt 300
tgctttgatg tacctgctag ggccatggcc catgacagtg gtaggtgttt ctttaatcgc 360
aactgtaagg atttggtgaa aaaacggttc acagtgcact gatatatatg tagctgcttg 420
ctgctgctgt gatatcaatg ggggtatcga atgtttgtat at 462

<210> 17496
<211> 326

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-B4

 <400> 17496

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 ggtgagggtt tgtcatgaga gtatgattct actagctagc atccttagca cacttgagat 120
 gttgttgact cgtgtcctag tgtagtgtac tctgtgtata tccatgtatg cacagtgata 180
 tatgtcggca ctggaacatg ttaacaccaa atgtttcaag cttcgtactt ttgcctgatg 240
 tggacatgca tgcagcaggc atcccagtac tacacctgct gttgaacttg aacactactg 300
 tattcagcct atgaatgatt catgct 326

<210> 17497
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-B5

 <400> 17497

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 ggggccgagt agctcctccg cgctccgccg ggaccgactt gccgctggcc gccaggggct 120
 ccctcgccca ggaccggctc cgccgtccaa ccgtcctatc ccctccggcc tccgcccaga 180
 tatgggttct tgggagggcc aagctaggca gcttttgttg gatgaggaag aagatgatga 240
 agagtttttc tttcttcttc tcctgctat actttcattc ctctctgaag agcaaagcga 300
 aactggagca gctattgaaa gtttcgtgga attcaagagg agcactgcag ccaaacgct 360
 ggaagctctt gaagaaaaga agaagcatga tgaagaattc t 401

<210> 17498
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-B6

 <400> 17498

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agcggtagaa gacaagaatg gaacttctga agtacaagat gctgctgaaa atccagaggc 120
agaagaaact aacactgctg cagaggaaac acctgctgta gaggaagcaa gtgagactac 180
cgaggaggaa gaggctgaga aacctgagat caagatcgaa acagctccag cagattttcg 240
tttcccaaca acaaaccaaa caaggcattg tttcacacgc tatgttgaat atcacagggtg 300
tgtggctgca aaaggtgagg atgcacctga gtgtgataag ttcgccaagt actatcgatc 360
cctgtgcccc ggtgaatggg ttgatcgctg gaacgagcaa cgcgaaaacg gcaccttccc 420
tggacctctg taatcctaca atgc 444

<210> 17499
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-B7
<400> 17499

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cgttcagat gagttgatca acgctgcca gggctcttcc aacagctacg ccatcaagaa 120
gaaggacgag attgagcgtg ttgccaaggc caaccgttga gtggagcttg tatcctggtg 180
cacttgcaact agaactacgt ttctggcagt cgtatttttt tcttgtgttt ttacccatgt 240
ttagactttg agacctatat ctaaggtttt ggttctcagt gaacaatgaa aattactgtg 300
aaatgcagtt gttttggtgc agaaatgcgc actgagatat tctgcttggtg aatttgtgag 360
tgctgttggc gtcgccgctg gcttgccgat gtagtatttc ttgtcactc 409

<210> 17500
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-B8
<400> 17500

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agagtacctg catgaggtgt gctaccccc agtggtgcat agtaggacct tcaaggcatc 120
taacatcctg cttgatgaag agtacagccc gcatctatct gactgtgggc ttgctgctgc 180

tctcactact gctgtggtct ccgctgaagc ggttggtctcc tttggatata gtgctcctga 240
 ggctgccatg tcaggaacat aactgcaaa gagcgacgtg tacagcttcg gagtagtgat 300
 gctggagctg ctgacaggcc gcaagccact agacagtgtg tgtgtgtgtg tgtgttttat 360
 accagctcca gagagaggtc agaacagtct ctcgtcagat gggcagcccc gcagctccac 420
 gacatcgatc tcctcgccag gatggtcgat 450

<210> 17501

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-C1

<400> 17501

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 cagtgttggt acggtatgag gggctctttt gactagttgg tccattcaaa cactgaagcc 120
 agaccttattc attaatgctg gcaactgctgg tggcttcaag gccaaagggg caagcattgg 180
 agatgtattc ctggcatcag atgtttcatt ccatgacagg aggataccaa tacctgtttt 240
 tgacatgtat ggaattggag cacggaaaac ttctgcagtt cctaatatct tgaaggaact 300
 caatttgaag attggcaaat tgtcgactgg ggattctctg gatatgtctc cccaggatga 360
 gaagggtgata ctgagcaatg atgctacagt aaaagataat ggaggagctg ctgtggcata 420
 tgtcgccgac atgttttcaa c 441

<210> 17502

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-C10

<400> 17502

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 ttcgaatcaa accactacct gatttgttta ggccccgaa atttgccggg tcgctcgtgt 120
 cgctcctctc cctgcgcagc cccagatcc ggaccgacc gctcctcgat cccgcacccc 180
 caccgccaca cgcttgacc agcagtgtcg cgcgcctggt atgaggaaga gaacacgaac 240

ggcggcatgg cggtccgcc cggaaggcc cgggccgact accactacct tatcaagctg 300
ctctcattg gagacactcc tgttggaag agttgcctcc tgttgcggtt ctctgatggc 360
tccttcacta caagctttat taccacaata tggattgact tt 402

<210> 17503
<211> 468
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-C11
<400> 17503

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agccgtcggg ggaagatgtc gtacctgctg gcgcgtctgc actcgggggtg ggcgggtggac 120
caggccatcc tcgccgagga ggagcgctc gtcacatcc gcttcggcca tgactgggac 180
gagacctgca tgcagatgga tgaagtgcta gcagcagtag ctgagaccat aaagaacttt 240
gcggtcacat accttgttga catcacagag gtccctgatt tcaacaccat gtatgagctg 300
tacgaccctt cgacagtgat gttcttcttc cggaacaagc acatcatgat tgatctcggg 360
actggaaca acaacaagat caactgggcc ctgaaggaca agcaagagtt catcgacatt 420
gtggagaccg tatacagggg cgcccgaaa ggccgtggtc tgggtgatt 468

<210> 17504
<211> 323
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-C12
<400> 17504

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gaaggagtcc gggtcgccgc cggcgctggc gccggcgccg gcgcagtcga agctgtaccg 120
cggcgctgcg cagcgccact ggggcaagtg ggtggcgagg atccgtctcc cgaagaaccg 180
cacgcggctg tggctcggca ccttcgacac cgccgaggac gcggcgctcg cctacgacaa 240
ggcggccttc cgcctccgcg gcgacacggc gcgcctcaac ttcccgggcc tccggcgcgg 300
cggcgcgcac ctgcgggtc cgc 323

<210> 17505
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-035-Q1-K1-C4

 <400> 17505

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 gggcagggtc tacaactacg acgggcagaa ggataacacg atcgacttac agcttggaac 120
 taggggcagc atgcagctat actttaaaac agctaccgga acacctatca ccgatgaaga 180
 tgagcatata gaccacatct accacaccta tggcactatt catgacaagg agggcattcg 240
 cacaaccag aaccatgtca tatatgctgg aa 272

<210> 17506
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3062-035-Q1-K1-B1

 <400> 17506

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 gagccgtcgc aggtggtgga ggtcttcgtc cgggtgacgg gcggcgaggt cggcgcggcg 120
 tcgtccctgg cgccaagat cggcccgtc gggctctccc cgaagaagat cggcgaggac 180
 atcgccaagg agacggcaa ggactggaag ggcctgcgcg tcaccgtcaa gctcacctc 240
 cagaaccgnc aggccaaggt ctccgtcgtc ccctccgncg ncgcgctcgt catcaaggcg 300
 ctcaaggagc ccgagaggga ccggaagaa ggtcaagaac atcaagcaca gcggcaacat 360
 cggcctcgac gacgtcgtcg agatcgccag gaccatgagg aacagggtcca 410

<210> 17507
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-H2

<400> 17507

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cgttcgccaa ggagaagctt gagacggcgg acgacgagaa caaggtggcg tcgtacagcg 180

tgggtggacgg cgagctggcg gactttctaca agaacttcaa gatcacgctg aaggtgactc 240

cggccaaggc ggaaggcgag ggcggcgccg tcgtcagctg ggccatggag ttcgacaagg 300

ccaacgacca ggtgcctgac ccggacgtca tcaaggagac cgtcaccaag acgttccacg 360

acctcgacga ctacctcc 378

<210> 17508

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H5

<400> 17508

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accttgctat caccacgacg ctgaaagacc acaagggcat ggctaaagag tactttaact 120

ttctcaataa gtaccttgcc acattcaaag ggtcagatga tgaatcagct acaattggcg 180

atgcgaagga agaggctgtt gcggcaatca tcgagtttgt taaatcgccct aatctctttc 240

agtgtgattt gctcaacatg ccagctgttt cacagcttga gaaggacgaa aagtatcagt 300

tgggtgtatga actactaaag atattcctta ctaagaagct tgattcctac ttggagtttc 360

aaagtgcaaa ctctgacttg ctgaaagatt attgtctcgt ccatgacaaa tgtgtaacca 420

aaatgcgcct catgtctttg cttgatctga 450

<210> 17509

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H6

<400> 17509

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ggctgtgctt agtggaaaca ctatgccgac tgctgatgat gttaagagca ttctggaatc 120
 agatgatgct gaagctgatg aacaaaaact agagttcctg ctcacagaac tcaaagacaa 180
 ggacataaca gaagtgattg cagctggaag ggaaagggtta tactctgtgc cttcagatgg 240
 tgggtgcaatt gacatgggag ctccagcagc tgtagctggc ggtggcgag cacctgctga 300
 agaggcaaag aaggaagaaa aggttgaaga gaacgaagag tctgatgaag atatgggttt 360
 cagcttgttc gattaaaaca ccactggcaa ttacagatt ctctcgcaa tgggtctcaca 420
 at 422

<210> 17510
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-034-Q1-K1-H7

<400> 17510
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 ggatctgggt tatccaaaca tgccaaatgc aaaggtgcac agtggatddd tctcctcgta 120
 taacaataca attttgcgtc tagctatcac aagtgctgtg cacaaggcaa gaaagtcata 180
 tggagatata aatgtcatag tgacaggcca ctcatggga ggagctatgg cttctttttg 240
 cgcgctcgat cttgctatga agcttggagg tggcagtggt caactcatga cttttgggca 300
 gctcgtgtt ggcaatgctg cattcgctc atacttcgcc aaatatgtac ccaacacaat 360
 tcgagtgaca cacggtcatg atattgtgcc acatttgcca ccttatttct tctttctttc 420
 ccagctgaca 430

<210> 17511
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-034-Q1-K1-H9

<400> 17511
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 gtgcttaac ataagttata ttcatgtatc cctcgcactc atgctaagaa atgaaagcat 120

cttaccctat cgagccctga tttccaaaaa tctgcaacat gttcaaaggt ggccatcaaa 180
ctcctatact gagtcctggc gcactggacc atatacgcca taaaataata tcctatccat 240
gatatgtaat tgggtgtatac atgcgtgcaa tgtaggatgc tcttatag 288

<210> 17512

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A1

<400> 17512

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cgaagtggcc gccttgctgg tgttgttctg agtaagcgga attgcagacc tgatcttgac 120
aaaaaaaaacc tagcttggag attcaggtaa gtaactgttg gaactgtagg gcacaactca 180
ttctggaaat agtttagcaag tttggatggc attgtaattg ttgtaatata tgagttgaaa 240
cattctttca aaggctcgtg cttgtgatct ctctcgcatc tgtaatgtta gtgctttgat 300
cattta 306

<210> 17513

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A10

<400> 17513

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cagggacgac cccaccatgg tcgggtggga gctgatgaac gagccccgct gcaccacgga 120
cccctccggc gacacgctgc agcgtggat ggaggagatg tcggcgtacg tcaagtecat 180
cgacaagaag catctgctca ccgtcggcac cgaggggttc tacgggccga cgagcccca 240
ggagaagctg gacgtcaatc cgggcacgtg gaaggacaac aactacggtt cggacttcat 300
ccgcaacgcc aagatcccag acatcgactt cgcttccatc cacctctacc ctgacacctg 360
gctgctgcag cagcacgcca cgggtggacga gaagctcaag ttcgtgaagc ggtgggtggc 420
gtcccatc gaggacggtg acaaggagct gggcaagccg gt 462

<210> 17514
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A11

<400> 17514

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 cgttatgtcg ttactgggct tcgactgaat ttaaggcaaa gtctgtgcga cacagttcca 180
 atcgtggaac cgagtcgtat cacaggtatg gaggtgatga tcactttcgt ttggcaaaac 240
 gaatggaagc tagcactggg gcagtgccta gtgatgttca aatatacctt aaggggcaca 300
 gaggatcaga tcctgcaaat ccagatgtgt tgtgcagcca aaaggcaaca gatcgtgtgc 360
 tgggtgtttg gaaatgtttg gtaggttctg tttatatgga tttttgtatg taagattaca 420
 ttgtttctttt gtatgaagct gcatatggc 449

<210> 17515
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A12

<400> 17515

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 ctacattcaa cttctcctat ttcctttcaa ctctccctc accatcaccc tctactacct 180
 ttcatttcaa ttccacactc actactaaat ctacttccaa ttccttatca acatatacct 240
 ctatccctac actcttcaca ccaacattt 269

<210> 17516
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A2

<400> 17516

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ttggtcgaca gccatacggg aacgaaaggt tgatgtacag ggagcagaga ggactaaagt 120

cggtagaagt gagcttgatc taggacagtg ctctccaatt cgttcattg aacacaagta 180

gcagtacaaa tagaactcat cctaagatcc ttggaggctt cacttgtata tactcagctg 240

ggtaggatagg tggtaggtgt atggtgtgat tttggcatcc aattggaatg gcaaaggtaa 300

tagtggttatt gtactaggaa ttctttccct tttttttctt tctcggggcc taaaattctc 360

atgttgcaaa ttatttttga gttgccacag agatttgcca ggagggtctg aagtcatggt 420

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<211> 247

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-035-Q1-K1-A3

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ccaattcctt ccatttaaca caagtatcaa tacaataga actcatccta agatccttgc 180

atacttcact cgtatatact catctgcatg catacacaat agatatatcc taccatttta 240

tcatcca 247

<210> 17518

<211> 399

<212> DNA

<213> Zea mays

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<400> 17518

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tccgttttca tttgcagaca cttcacagac aaggaagatt gatctccgaa ggacattatc 180

tagaacaaca tcagtgtttt catcttctgc tgctttgttt gggaaactta aaagagatat 240
gctttcattt cgtgaaagtg cactccagga taacacaaag ctactgcca tcagtgagaa 300
tgcaaagatg atcagtgcaa atgatgcaaa attattcaag tcacagacta ttcaaaggat 360
ggttagtaca agagatatatt ctcttccctc ttccacaga 399

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<211> 446
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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ccnngtgttt gatacagctc gatggg 446

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<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-035-Q1-K1-A6
<400> 17520

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gtgtgtcatt cttggtattg cggcctacct ttacaatgtt ctaaaaaagt gaggtggagt 180
cttcttgctt tggaaccgct catgtcgtgg tccctttgtc accatgggtc taccagttc 240

tttgagcgat ttgtgtgcac caagccatth gttttgtctt atatctgtat tattatggtg 300
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tctggggagt cgatttcgta gcgaggaatg attacacggc accattctta tctgtttatc 420
gaaccacggg ctcatgtata ttcattccgt cagggtttt 459

<210> 17521

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A7

<400> 17521

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accgacgacc actccctcaa caacgccttc agcacctacg gcgaggtcct cgagtcgaag 180
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gaggacgga tgcgcagcgc catcgagggc atgaacggca aggagctcga cggccgcaac 300
atcacgtta acgaggccca gtcccgggc ggccgtggag gcggcggtgg cggatacggc 360
ggcggggccc gtgatggagg cggctacggc ggtggcggtg gaggctacgg cgggtggtcgt 420
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<210> 17522

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-035-Q1-K1-A8

<400> 17522

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ctggcattca acaaaagtgc agcatgccat tcgaatgtca caatggctct atggagtata 180
tgaattagca caaccatagg ccacgtctca cataatcgaa catacaaggc acagataaca 240
cctcaggata tgagacaagc gacaaaattg actatctgaa tgatagctaa ctgtacaatc 300

actgtgattt tataaccgaa tgcaaagata ccaaattctt agtaataaag tcctacactg 360
 aggaccatgt acatagggtc atcaactata aagtttgccg cagcacactc atgtcgaaca 420
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<210> 17523

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H12

<400> 17523

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 ttgctgttgc tgtatgttcc tgttctgttt gtttcacgtg taggtatggt gttggcaatt 180
 gtagggatat tctagattac aatgctgatg c 211

<210> 17524

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F4

<400> 17524

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 gatactcata gcttggttctc ctataatcat tctcctacta aacacatact tttacaatac 180
 aagacctatc atagatatct cataaaaaat actcac 216

<210> 17525

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F6

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 gaacggctac ttggacagta caagccgtat catggatgtt tcaaagaaaa tacaagagg 240
 gattggagag atcccagggt tgtttgtgat agggaaaccg gatatgaccg ttgtggcggt 300
 cggctcagac gttgtcgaca tatttgaggt gaacgacata atgtcatcaa aagggttgga 360
 tctcaatgct ctgcagagac ctaacagctt gcatactgtg gtgacccttc aacacacgac 420
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<210> 17526

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F7

<400> 17526

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 gcgccggcgc tctccacact acaccatctg aaggagatcg cgtccgcgat cgaggccggt 180
 tctctgtcca aggaggtccg acggatctac cgcgccttgc gcctcaccgt cgcgctccgt 240
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<210> 17527

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F8

<400> 17527

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gctaccaagc acagggcaag ttgctgagca atcatccacc aattaagttc atggtctcaa 180
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aggtgaaatc agtgcacttc attggagaaa aggactggct caaggtacct tccgaggagc 300
tggtcttctgc ctttgatgag cctctcatca taaggcatcc tcagggtcac actgtcccta 360
agcttgacga cgtgtctgtg aaacagcttt ctgaatggag ctcacacg 408

<210> 17528
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G1

<400> 17528

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atcaaaatga cgcatacaatt gtcacaaaaa ctaatttcaa gcatctgtat tggacgctga 180
cacagcagct agcacaccac accatcaacg gatgcaacat gagggccgggg gatataatttg 240
cgactggcac actgagtgga cctgaaccgg actccctcgg gtgcctgctg gagctgacat 300
ggaacgggca gaaggagata ccgggtgggga gtttgaccgg caagttccta gaagatggag 360
atgaagtcac cttgacaggg atttgcaagg gtgaaagcta caacatt 407

<210> 17529
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G10

<400> 17529

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ctcgttatac 130

<210> 17530
<211> 165
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G12

<400> 17530

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aagaaagaga gttgaagatg agtgtacctt gacatgctgt tcacttgta tcggaagaca 120

tgtcatctat tattaatact gctgattctg aatcttctc acctg 165

<210> 17531

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G2

<400> 17531

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aggtgaagat ggactgcgaa ggttgcgagc gtcgctgaa gagcgcggtt aattcgatac 180

tcggcgtagc tagcgtgact gtgaacgcta agcagagcaa gtgcacatga accggatacg 240

ttgagcccgg caaggtgctg cagcgcgctca aggccaccga caagaacgcc gacatgtgcc 300

cctacgtgcc ctacacgctc accacc 326

<210> 17532

<211> 339

<212> DNA

<213> Zea mays

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<400> 17532

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ggggattctc cgacgtcctg gtctcgagcg agcactacgt ggtccgcgtc cccgacggcc 180

tggcgctgga ccgcaccgcg ccgctgctct gcgccggcgt caccgtgtac agccccatga 240

tgcgccacgg cctcaacgag cccggcaagc acctcggcgt cgtcgtgcct ggcggcctcg 300

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339

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G4

<400> 17533

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aggcgggtct acttcggctc tcgattccga gaactgctag tttgttcagt cagtgaggcc 180

tttggaagtg aagcagacaa aaggcgtgaa tcttgccgtg taaagtgtag ttggtacatt 240

gtgtgtatgc ctgcgggtaa gccctgcggt acccagtttg tgcctggcg ccagtttacc 300

atttaagcta agtttttggg tgtgccttgt gctggggtct gggctctagt tattgtagca 360

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<210> 17534

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-G5

<400> 17534

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acagatcaca catgtttatg gattctatg 449

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<211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-G8

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 acctttataa ctgaaacata caaaacgcct taatctacct ctaaataatg cagatgggtac 240
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 accatttaaa cta 313

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 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 aaaattcgca cagtggagca agatgggaag accatanaac ttcagatttg ggatacctgc 300
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<210> 17537
 <211> 395
 <212> DNA
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 <223> Clone ID: LIB3062-034-Q1-K1-H1

 <400> 17537

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 <211> 205
 <212> DNA
 <213> Zea mays

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<210> 17539
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-H11

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<210> 17540
 <211> 449
 <212> DNA
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<223> Clone ID: LIB3062-034-Q1-K1-F3

<400> 17540

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<210> 17541
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 <212> DNA
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<223> Clone ID: LIB3062-034-Q1-K1-D3

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 <211> 445
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 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D4

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<211> 351
<212> DNA
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gcccgtgaa agcattttgc ttggctgtga taaattgagc acgaggtgtt ctgccactgt 300
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3062-034-Q1-K1-D9
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agagatcgtg attgatgact gtttcgtagt ccattcagct gcttttggtg aatatttaag 180

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tctgtgaggt tttctgtgct gatttttcac cgtcagcaca cccgttggtc tgctggctgt 300
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<210> 17545
<211> 365
<212> DNA
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<223> Clone ID: LIB3062-034-Q1-K1-E1
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<210> 17546
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<212> DNA
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<223> Clone ID: LIB3062-034-Q1-K1-E10
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cgcgtatact ccaatgatgc gactcaacat taaccaacct ggatagtcac tttcattcat 180
tgctattaca cctctacttc atatgtcatg gacaactggc caagcattat ctcttcaggt 240
aacacctctc agtactagtg aatcacaaag cgatggatcc accaatctac gatgcgcaca 300
tagtattgac ta 312

<210> 17547
 <211> 167
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-E12

 <400> 17547

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 cgtcgacaat cgcattggga ctagtaagca tgaagacgcc gaacgcggta gctgccttcc 120
 tgttgtcagc gacactgcta gcttgatcca cttcagctgc aatcacc 167

<210> 17548
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-E3

 <400> 17548

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 ggcagcagga gaggttacta cggagtgtgg caggagtctg agaagcagta cctgacgcc 120
 aatgtcctcc tggtcaccgt gaccgacgag gagtcgaggc gcatcgagca gcagtcggac 180
 gagcagacca aggcggagat catgcaggtg ctgcggaaga tgttccccgg caatggacgt 240
 cccggacgcc accgacatcc ttgtcccagag atggtgggtcc gacaggttct acaagggtc 300
 cttctccaac tggccagttg gcgtctaccg ctacgaatac gaccagctta aggcaccggt 360
 tgggagggtg tacttcaccg gtgagcacac catcgagcac tacaatggct a 411

<210> 17549
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-E4

 <400> 17549

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 ccagcatcaa gagcgcgggt gctacggcga ccgatactcg tctgacacag ctggtgggtg 120
 cctttgcgac tatcacacac ctaatccatc tgctgtctc ctggctatac cgcttcacaa 180

cccagcgcgc gctcatcgat atccctctga tattattgcc caagcttaca ccagagcggg 240
 tgcgcacggc atgtccattg atcactcgct agctgtcgct ctaatgagct actatcctat 300
 tataccgtga ctgtcgacat ct 322

<210> 17550
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-E5

<400> 17550

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 ggcaagcgtc tgtattggac ggtgactcag cagctaacac accacactat caatggatgc 120
 aacatgaggc cgggggatat atttgcaact ggcacactca gtggacctga accggactcc 180
 ctcgatgctc tattggagct aacatggaac gggcagaagg agataccagt gggcaatttg 240
 acccgcaagt ttctagaaga tggagatgag gtcattctga caggatgctg caagggtgaa 300
 ggctacaaca ttgggttttg aacttgact tggaaggctc tgccggcact tacctgagcc 360
 aacacgtgtt tacatcaatt ctcgagtcca aacactcaac aatctaaca gatgctatgt 420
 atctgaacaa c 431

<210> 17551
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-034-Q1-K1-E6

<400> 17551

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 ctggctttca gaaaatctga catttgatgt tgatgctcgg attaattctt ttgagtgtaa 180
 cataagactt ctgtgggggc ttatttctgc tcatattctt gcaaaagact acagcagcca 240
 gttaagcat gggctgtatc aagatcaatt actacgtctt gctgaaagtt taggcaatcg 300

ttttctaccg gcatttgaga cacctactgg attgccgtat tcatggatta atcttaagta 360
 tgggggtgatg gaaaatgaaa caactgaaac aagcacatca nggtgtggct cccttatact 420
 tgaaatgggt gtgttgtcac gnttgacttg tgattctaga 460

<210> 17552
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3062-034-Q1-K1-E8
 <400> 17552

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 tcttgtgccc gcataacccc gtcatccggt cgcgtcaccc tccgggacca cagcgccggt 180
 ttcccgcctg tcggggcggc ctccacctcg atggcgctct cggagagcga agataagagg 240
 gaaaccaagc tgtggggcggc gcggttcgag gagggcgctc cgcacgccgt ggagcgcttc 300
 acggagtcca tatcctacga ctggcagctc tacaatacgc acataatggg cagcaaggcc 360
 cagcctcca tgctcgctgg ccagggtttg ataacagcta ctgataggga tatcatctta 420
 gaggggctng atcagataga gaggtgatc 450

<210> 17553
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3062-034-Q1-K1-F1
 <400> 17553

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 gcgagatagg catcgaccca gcggcggaga ctccggagca gcgcaacaag ttccctggctc 120
 tccgcctgta cgaggcgctc aacgcccggg accacgccgc cgtgcagtcg ctgctggcgc 180
 ccgacctgga gtggtggttc catggcccgc ccaagcacca gcagcacatg atgogcctcc 240
 tgacaaccac caccaccacc accaccggca gcttccgctt cgtgccccgc tccgtggacg 300
 ccctcgccgc ctgctccggc accgtgatcg ccgagggccca cgagaggggt tgctactggg 360

tgcacgcctg gaccgaggga cccgatgggg tgatca 396

<210> 17554
<211> 215
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-034-Q1-K1-F10

<400> 17554

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gatgacatgg atcctagggg caacttgagt cgatccatgg atgctagtaa agggtttgga 120
acttccgatg gtgccaaagc acgttcaagc acatccaaat ttttctgctg ccacttctca 180
cctgatggta aactgcatgc tactggaagt ccata 215

<210> 17555
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F11

<400> 17555

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atcttcaaag gcttcgtcac caccacgaca tccacccatg tggccagcca cccccagaaa 120
tactttctat tgcagaccca cccccgatg aaaaaacgcc cttctagcct attctacttt 180
tgtatcacag actaca 196

<210> 17556
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F12

<400> 17556

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atgggaggcc atcgaggagc tcgacgagct cgcctggctc catacctcct tcatcaaact 120

cgacgagccc atcaagacca tcc

143

<210> 17557
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-F2

<400> 17557

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ggggacatca ctcccatggg tggcttcccc cactatggta tcgtgaaggg tgactacctg 120
atgatcaagg gatgctgctg gggcctcaaag aagagggtgg tgacctccg ccagtcctc 180
ctgaagcaga cttcccggtt ggcgctggag gagatcaagc tcaagttcat cgacacatcg 240
tccaaatttg ggcattgctg cttccaaact accgatgaga agcagagggt ctttggttaag 300
ctcaaggcgt aagggtgctg agtgcacga caagtcccat ttgtcaaat catcaaactg 360
tgaaactctt gcttggtacc ttgctgtacc aagttttgta gcatgatgat ttgggagcat 420
g 421

<210> 17558
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D2

<400> 17558

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tgggaagctg tgacctttat ccacaaagt taaggcaca tccgaatggg agatttgtag 120
ttgtatgtag tgatggagaa tacataatat acacagcact tagcatggat aaacagatca 180
tttgggtctg cacttgaatt cgtttggtca actgatggag aatatgccat cagagaaagc 240
acctcgcgga taaagatata cagtgaacat atccaggaga agaaaagtat aaagccatcc 300
tttttcgctg aacggatatc tgggtggagt ttacttgcta tgtgtacaaa tgactacatc 360
tgcttctatg attgggctga atg 383

<210> 17559

<211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-B3

 <400> 17559

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 cattcaagct gatccca 77

<210> 17560
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-B4

 <400> 17560

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 ctctatctgt ctgtatctcc tgctcctgat caggattaaa cgaatccatc tgcttactga 120
 atcctctgac atcagacctc ctagactttt tacgacagga cgcactcatc ttcatgacaa 180
 ttgtcatgat ccataccaac tagtcctacg atccacgcat tggagcattc atgcaccagt 240
 tggaaaatat tatectctta ca 262

<210> 17561
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3062-034-Q1-K1-B5

 <400> 17561

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 ctcttcaagg acttgaaggg tgcgctgaca gcgtccaagg ctccctggaa gatcgctcgtg 120
 ggtcaccacc ccacagcac cgcctgcggg catgggaaca aactgagct ggaggagttg 180
 cttctcccgg tctcaggac acacgggggtt gacatgtact tgaatggcca tgaccactgc 240
 cttcagcgcg tcagcagcag agacagtcgt cttcagctac taaccagcgg cggcgggtcc 300
 aaggcatggg ctggcaagtt caagcccacc ctcgacaaag tggagttcct ctacgacggc 360

catggggttca tgtcgatgcg cctgagcagg acggaagccc gcctcgcggtt cttcgacgtc 420
gctggcagcg tcttgact 439

<210> 17562
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3062-034-Q1-K1-B6

<400> 17562

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ggctctgggc ttogttctct acaacgagcc tgaacagaca cccagaatcg tgtccctact 120
gtcggaatca tacaatccac atgtccgtta cgggtgcagct ctagctgtcg ggatctcctg 180
cgccggaaca ggattaagtg aagccatctc cttactggag cctctgacat cagacgtcgt 240
cgactttgta cggcagggcg cgctcatcgc catggcaatg gtgatgatcc agaccaacga 300
gtcctacgat ccacgcgttg gagcattcat gcgccagttg gaaaagataa tctcgcacaa 360
gcacgaggat gccatgagca agatgggcgc catactggct ttaggcattc tcgacgccag 420
tggcaggaat gtcacatca agtcaagtc ga 452

<210> 17563
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B8

<400> 17563

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tgggcggggg cgcgtccccg gcgttcggcg gcctccccgg cggcagcatt cctggcagca 120
gcattccccg gttcagcatg cccggcagcg gcagcagcct tcccggttc agcttgcccc 180
gcagcggcag catgcccctc ttggcgggcg gctccccggg cttcagcggc ttggcgggca 240
tgccccggtc ccccaaccgc ggctccgtcc ccgagcacgc caacaagccc tgaactccgt 300
ctgtccgtcc gatccgtcgc tggagcaggg tcgggctagc cagcgtgcgt ggtagtagag 360
tgatgttact gtaatacgtc gtcgtcttca tgcattcggtg tgcgtgggt tccctagct 420

ccatacgag

429

<210> 17564
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B9

<400> 17564

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tgccaccaag gctgcccgtg agtctgcccc caccactggg ggagtgaaga agcctcaccg 120
ctaccgccct ggaactgttg ccctccgtga gatccgcaag tatcagaaga gcactgagct 180
gctgatcagg aagctgccct tccagaggct cgtcagggaa attgcacagg acttcaaaac 240
tgatttgctg ttccagagcc atgcgggtgct tgccctccag gaggtgctg aagcatacct 300
tgttggcctg tttgaggaca ccaacctgtg cgccatccat gctaagcgtg tgaccatcat 360
gccaaaggac attcagctgg caag 384

<210> 17565
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C1

<400> 17565

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gcaggaaatc catggcctcc atggcaaagg tgtttctggt gagaatatct cttctcagct 120
ttcaccctgg gcatctgcac tctttgagtt tttgccccct tttatcagga agcagctact 180
tctccatcct gaatctgatg attcagctca actttctcag attgagacag agaagcttct 240
agcccagtta gttgagactg agatgaacag acgtttgaag gagggcactt acaaaggaaa 300
gaagttaaat gcaatctgtc acttctttgg ctaccaagct aggggagcac tgccttccaa 360
gtttgactgc gattatgcct atgtcttggg gcatgtgtgc taccacatct taactgccgg 420
tttgaacggt 430

<210> 17566
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C10

<400> 17566

ggaactaccc actcgtccca gcatgcgaaa tcactaagat cactatacct ct 52

<210> 17567
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-034-Q1-K1-C11

<400> 17567

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 cgcagctcaa ggagctgaag tctgagctct ccctcctccg cgtagccaag gtcaccggcg 180
 gcgcacccaa caagctctcc aagatcaaag tgggtgcgcac ctctatcgcg cgcgtgctca 240
 cagtgatctc gcagaagcag aagtcggcgt tgccgggagc gtacaagaag aagaacctgc 300
 tccccctcga cctnncgcct aagaagaccc gtgccattcg ncgtcgtctg accaagcacc 360
 agctttctct gaagacggag agggaaaaga agcgtgagaa gtactttccc atg 413

<210> 17568
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C12

<400> 17568

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 gggatggcca tgtcggactc ggaggagcac cacttcgaat cgaaggccga cgctggggcg 120
 tccaagacct acccgagca ggctggcacc gtccgtaaga acggcttcat cgtcataaag 180
 aaccgtccct gcaagggtgt ggaggtttct acctccaaga ctggtaagca tggccacgcc 240

aaatgccact ttgtcgccat agacata

267

<210> 17569
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C4

<400> 17569

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gttttgcaact ggcagtctgc ttatttccag ttaccata ccaatgcaag attgttgtac 120
tgtactcatg tgctggagct ctacttttca ttgtctccat tcttttgcta agagctgcca 180
tctttggcat cttatgggtt ctcttggga aacgcgtgtg gttcttcccc aatataaatg 240
cagaggagac aacatttaga gaactgggtc gtttttggcc tgaaaaagat gaaggagagc 300
ggccaaagtg gacatcaaga cttttctatg ctcttggtgc tctattggtg atattactgc 360
ttatgcacca tgctccggac gaagcaacta gagccaggta ccaaagaag gtttctaaca 420
taattgat 428

<210> 17570
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C6

<400> 17570

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ggcggcggcc gtggaggcgg cgggtggcga tacggtggcg ggcgccgtga tggaggcggc 120
tacagcgggtg gcggtggagg ctacggcggg ggtcgtggag gctacggcgg cgggtggggga 180
tacggtggtg caaacgcgg cggcggctac ggcaacaacg acgggaactg gaggaactga 240
gcggtggggg ccgctgaggc ctagttatct tgttcgcttc tgctaccgtg ttcaccctag 300
tctagagggg gtttatcttc gtctgtggtc gtctcgtgtc cgtatgttcc gtttcgtgtt 360
cgttggtgat gttgcccatc tgtggttttg accgtaagct cgctcctctg atgttggtag 420
tgatgtctaa 430

<210> 17571
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-C7

<400> 17571

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gggccgagtc gaagaaccac acggcgcata accaatcggt caaggcgcac aagaacggca 120
tcaagaagcc caagcgccac cgccagacct ccaccaaggg gatggacccg aagtttctga 180
ggaacttgag gtactcaagg aagggaaca agaagagtgg cgaggctgat tccgaggagt 240
aagatgatgg tgattgagtt tgtggcgaca aatgcattct ttgtatcgct aagagtctta 300
tctgtgaact tagttctcac ttttgtgtga ctgtgatcaa aggagatcca tcaattggta 360
ccgaagtgta ttttatgtct tgttggttac ctggaaatta attaaaacca tcagttgtat 420
ccttttgag 429
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<210> 17572
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-034-Q1-K1-C8

<400> 17572

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ggaggaggca ttttaacgctg aaaaatttgc tgaaaacttc aaaaaattgg attatgtgaa 120
ggttcctgaa atttactggg cacacactac tctcagggtt ttaacaatgg aatatgtccc 180
aggaattaaa attaacagaa taaagcagtt agataagtta ggagtcgata gaaaaagatt 240
aggtcgttat gctgttgagt cctaccttga gcagatctta tcccatgggt ttttccatgc 300
tgaccgcgat ccaggaaaca ttgcntgtga tgatgtcaat ggaggagac ttatcttcta 360
tgacttncgg atgatgggaa gtatcagtc taatatccgg gaaggattgc ttgaagnatc 420
tatggagttt atgaaaagga tcct 444
```

<210> 17573
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-034-Q1-K1-C9

<400> 17573

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cttactcctg cgtctccatc ttggcccaac cgagcccaaa cctctcccct tttctccggc 60
ctctggtagt ccacacggca gacgccgtcg ccgggggaga ggagaggagg ggaggggatc 120
ggctccaagg gaacaggtga gatggcaatc ctgtacgcgc tgggtggcgcg cggcacggtg 180
gtgctggcgg agcacagcgc ggcagccacc aacgcgggcg ctatcgcgcg ccaagtcttc 240
gagcgccttc ccgacggcgg cgccgacagc cacgtctact acacgcagga ccgctacgtg 300
ttccacgcca agcgcaccga cggcatcacc gcgctctgca tggccgacga cgccgncgga 360
agaccgattc ccttcgcatt tttggaggat attcat 396
  
```

<210> 17574
 <211> 342
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-034-Q1-K1-D10

<400> 17574

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cggacgcgtg ggccggacga cgggtacaag aagctgtacg gcacggggtc gctggagggg 60
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ctggcgttcc agctggcggt cgcgccgcac ctcaaggacg tgcgccccga cgaggcccg 180
gtcgccgaga acgagaagaa gctgcacagc atgctgggcy tctacgacga catcctctcc 240
aagaacgagt acctcgccgg cgacgacttc aactggccg acctntccca cctggcaaac 300
tcccactaca tcgtcaaact cctcgacagg ggcaggaaag ct 342
  
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<210> 17575
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D11

<400> 17575

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gcagcctgaa tcctcgtaac gatggctcgc acgaagcata ctgcgcgcaa gtccacgggc 120

ggcaaggccc ctatgaagca gctgtcgacc aaggcggcgc gcaagtcagc ccctgcgacc 180

gtcgtgctaa agaatcctga ccgtttccgt ccgcgcaccg tggcgctgct ctagatccgc 240

aagtaccaca atagcactga gcttctcatc cgcaagctgt cctttcagcg cctgggtccgc 300

gagatcgcgc agga 314

<210> 17576

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-D12

<400> 17576

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ccaggatgct cgggcaactc atgtaaagcg cttcaaaaat atgccaatgg cagacatgga 120

gttggtctctg cctgagaaga aaaacccgag cctcacacct atggactggg ttcaatttat 180

tgtctctgtt gtcattggac ttgttacact catcacttca ctggacatgc ctaaagctga 240

tttctgagtt gtaattgcaa tactatctgc acttgcataa tattgcgcga agatct 296

<210> 17577

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-B2

<400> 17577

cacacgaatg ccgacctgat caagttagaa ctgactgcac tgttcagata ttggcgccag 60

tgcaatctcg atacatgcc taatccatcc atggagccat tagttgatgc tgttcaaagg 120

catttcacgg cccaccaatt ggatgagttg catgtcattg tcagcttttt gcaagctgca 180

aagaagctga agacaactat gaaagtggcc tgacagtga gcatgaagtt caactaacag 240

attcaagata ggatgcagca tgtttgatga atgttgccgt gctatgtaat atatatgcat 300

gaagttcttc agattcaagt agtaatggac aactagacta tgttaacctc atctgatgta 360
tatattcagt atccccgtcta aagatgttt 389

<210> 17578
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H10

<400> 17578

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agtaggttac cttgtcttga tgttcagttg ctatcgtttg acatgtcagt tattattatc 120
attgctgttg ctgtatgttc ctgttctgtt tgtgtcacgt gtaggtatgg tgttggcaat 180
tggagggata ttctagataa caatgctgag gctttggccg gcaggacacc ggtggacttg 240
aacgacaagt gtaggaacat gcttt 265

<210> 17579
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H11

<400> 17579

aggagtcgtg gctgatgttg gtccaggaat caatgggttc caagccggag atcaagttgt 60
tgcgtatgct caactcatth aacggaggtg ggcttgcgga gtatgctgtg gcatcagaaa 120
atctgaccgt caagaggcct cctgaggtat ctgctgccga aggcgcaggg ctgcccacg 180
ccgccggcac tgccctccag gcgctcagga ccatcggcgc caagttcgac ggtactggca 240
aggccatgaa cgttctggtc accgcggcat caggtggcgt cggcctctac gccgtgcagc 300
tcgcgaaacg ggctggtctc caggtcactg ccacctgcgg cgcgcgtaac gtagagctgg 360
tg 362

<210> 17580
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H12

<400> 17580

gagaaagaca aggaggtgga gcttgttcga agaagaaacc ttaagaaagg gtgttgaaga 60
gtatgttacc ttgtcttgat gttcagttgt tatcgtttga catgtcagtt attattatta 120
ttgctgttgc tgtatgttcc tgttctgttt gtttcacgtg taggtatggt gttggcaatt 180
ggagggatat tctagataac aatgctgagg ctttggccgg atgacaccgg tggacttgaa 240
ggacaagttg aggaacatgc ttttcctttg aggtaacctg tgaaaca 287

<210> 17581

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3062-033-Q1-K1-H2

<400> 17581

agaccaatta actagcttct tctagctcta gctaggctcg tctgctgcaa gaaggaaca 60
gcgagggcat ggaggggaag gaggaggacg tccgcctggg cgccaacaag ttctcggagc 120
gccagcccat cggcacggcg gcgcatggca cggacgacaa ggactacaag gagccccgc 180
cggcgccgct cttcgagccc ggggagctca agtcctggtc cttctaccgc gccggcatcg 240
ccgagttcgt cgccaccttc ctcttcctct acatctccat cctcacgcgc atgggcgtct 300
ncaagtccac ctncagtgcc gccaccgtcg gcattccagg catcgccctgg tccttcggcg 360
gcatgatct 369

<210> 17582

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H3

<400> 17582

cctgagtgc ctcgttctct ctactccgct ctctctcag cgaggcagtg catccttaat 60
gcagtgcac tttgagccgc cgccgccgtg aggagctccg cccatccgct gtcacccgct 120

aaatcagttg atacgaagac attagaggat ataatcggcc cttcaacttc aatgaagtct 180
 catacacatc cagtgaagcc tcgctttcaa gtcagcaatc ggcctaaatg caatttgcta 240
 aataaaagtt ctattgattc tgagcaaact atccaatctt ctatagcctc caagataaca 300
 actttggtat gtgtacttct gaacagagaa aaaaacttta ctactgaatt gcagtagaaa 360
 aattctcttg tgtcatgtct tgttaattta tgtcctagtg tactgttttc ttgattttta 420
 gaataacgcc acaggctacc aaagttacaa a 451

<210> 17583
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H4

<400> 17583

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 agcaaggtgt cgtggcaggc gtacgtcgat gaccacctgc tgtgcgacat cgaaggccag 120
 cacctcagcg ccgccgccat cgtcggccac gactgcagcg tctggtcaca gtccgagaac 180
 ttgatcgagt taaagcctga ggaggttgct gacatgatta aggactttga cgaacctgtt 240
 aactacaggc caacatggtc caaggggaag aggtatccag tacacaggga tccttgtctg 300
 gaccacaaca accatgcgaa aggtgagagt ttcgatctgg gcaagtacat ttgacagcac 360
 tttgaaggcc catcgttggt cccataggat cctttaataa agcagttcgc tgaagagctg 420
 cttgcatata ctgatgcctt taacaaagtc ttataactttt tg 462

<210> 17584
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H5

<400> 17584

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 ggcggcagca ggcagccatc atgtcagagg agaagcacca ccaattcttc aaccaccaca 120
 agaaggacga ggagcagccc gccggcgagt acgggtactc cgagaccgag gtggtcaccg 180

acaccggcga gggcgagtac gagaggtaca agaaggagga gaaggagcac aagcacaagc 240
 agcacctcag cgaggccggc gccatcgccg acggcgccctt cgcactctac gagaagcacg 300
 aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag gtcgctgccg 360
 cggcgccgt ctgcgccggc ggctacgtat tccacgagca ccacgagaag aagaaggacc 420
 acaaggacgc cgatgaggcc agcggcgaga ag 452

<210> 17585
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H7

<400> 17585

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 ggcaagagca acatccaact gaactaggac tagaaaatga gaacaatcac atgtctatctt 120
 taagcattgg tggtatcagc atgaaaagct gtgagcgagc attgttgcac gttgtatgcg 180
 agctatgcta tcgcaaaaac tgaagaatgt cattcgaaaa tgtccataca atggcagacc 240
 ttgtttatga agttgaactc attggatttg atgatggaaa ctacgttaaa tacctaactg 300
 acattacact tgactagagt atcgcaacta cagacaacaa aaatattgag gccaatgcat 360
 atctgaaaga caagaagctt gatgaggcca tgcagcaata tgatatggct atcgcataca 420
 t 421

<210> 17586
 <211> 164
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3062-033-Q1-K1-H8

<400> 17586

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 cgtcctaaag gaagtgtctg catctcccct gacctccgcc tccgagcccc ttcccttttt 120
 cgatggcacc accaggctgt acgttgcccta tcattgcccc tacg 164

<210> 17587
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-033-Q1-K1-H9

<400> 17587

gccgatccta aggacggagg aaccctcga tagcgcgac acgcgcgtca tccgaaagga 60
atcggttaag atggccgagc ctgacgtggc agcagacggc gacgttagga agtcctgtgg 120
tggacgtggg gctacttcat gagaggcgtg ttcctgtaat tctgtactca cttagttctc 180
tctgcatgcg tctataattg agttcaatag a 211

<210> 17588
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A1

<400> 17588

aaattatacg agccatccaa aggggatgac tcaactcatca gtgaagagag ctcagggggg 60
gagaataaga tggggatagg ctcttgaacc gaaagggttc agtttctctga gttggttttt 120
ttttccccgc gtcttctcga gcatcagtgc ttgggtggag actcagtcgt ctttgcaggg 180
agttggttaa tcagtagact gatgggtgcy aataaagtca agtcaaacag ctttaaccata 240
tgattaacac ctttgctttt ctatttctaa atctgagatg attgcaaaca gttttggg 298

<210> 17589
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A12

<400> 17589

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tgcattgctg gcgttgctc gtttagaggg atgatcgctc aagtcctata actagcgaaa 120
ccctcttttt gagtttctga cacatgctcc taatgctaaa tatccaatta accgagttac 180
ataccaaatc tactacttaa ttgagttcc 209

<210> 17590
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A2

<400> 17590

aactcaagag aacagtgtac agaattggat ttaagacttg atatggaatc atctggatct 60
 gagttatcca aacatgccat attcaaaggt gcacagtgga tttttctcct cgtataacaa 120
 tacaattttg catctatcta tcacaagtgc tgtgcacata gcaagaaagt catatggaga 180
 tatcaatgac atagtgcag gccactctat ggtaggagct atggcttctt ttttcacact 240
 cgatctttct at 252

<210> 17591
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A3

<400> 17591

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 ggggtcgaaga tggatatgag tttttcgcta gccgccaact cgtaacaatg ttttcagccc 120
 ctaactactg tggagaattt gataacgctg gtgccatgat gagtgtagat gagacattga 180
 tgtgctcctt ccaaatactg aatcctgcga ggaaggtggt ggggtggttca actaataaca 240
 aatctggctt caagtcacg agaggatggt gacaattgca agcctgatat caggttggtt 300
 ggtgagcagc atgccgtggt cgacgggggg ttgttccatc ataatcatat tacatcggtt 360
 gcaactgaca ggccccatgc aatttctctt catgttggat caacattctt ggaatgtatt 420
 aattact 427

<210> 17592
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3062-034-Q1-K1-A6